

Manufacturers Record

Exponent of America



\$6.50 per Year.
Single Copy, 20 Cents.

Baltimore, Md.
JULY 10, 1924



Radicalism in American Colleges.

The Reds of Europe, backing the Reds of America, are seeking in many ways and under many disguises to develop socialism and communism in this country. Recognizing the fact that if they can plant their doctrines in the minds of immature youths, male and female, in colleges, they will be able to secure results which otherwise it might take many years longer to accomplish, there is a distinct movement on the part of the Reds, and the Bolsheviks, and the Socialists, and the Communists to develop through one phase or another, one movement or another, a spirit which would look to the breaking down of all orderly governments to carry out the doctrines of the Bolsheviks, "To hell with all governments, all churches, all synagogues! We are Atheists! We are Anarchists!"

That is the spirit in which the agents of radicalism are seeking, in many ways, to undermine the American Government, and one of the means adopted is to work their way into the colleges and bore from the inside.

In this issue we are giving some facts in regard to this movement in colleges and letters from a number of college presidents giving their views on the subject. While the majority of these letters are distinctly opposed to movements of this kind in their institutions, there are several which practically uphold such activity on the plea of absolute freedom for students, which it seems to us is about as unwise as the old doctrine that young men must be given free rein "to sow their wild oats." The latter doctrine is hardly more obnoxious to the moral sentiment of every right-minded man or woman than is the doctrine proclaimed by some college officials.

We commend to the careful consideration of every reader of this paper the facts published in this issue on this vital subject.

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PUBLISHED EVERY THURSDAY BY THE
MANUFACTURERS RECORD PUBLISHING CO.

Office: Manufacturers Record Building, Corner Commerce and Water Sts., Baltimore, Maryland.
RICHARD H. EDMONDS, President; FRANK GOULD, First Vice-President; VICTOR H. POWER, Second Vice-President;
I. S. FIELD, Secretary; J. ROBERT GOULD, Treasurer.

RICHARD H. EDMONDS, Editor.

BRANCH OFFICES:

CHICAGO, 11 So. La Salle St. NEW YORK, 901 Singer Bldg.
CINCINNATI, 923 Union Trust Bldg.

SUBSCRIPTION RATES:

\$6.50 a year (in advance); six months, \$3.50; three months, \$2 to United States, Mexico, Cuba, Porto Rico, Hawaii and the Philippines. For Canada add postage \$2 a year. For other foreign countries add postage \$5.50 a year. Back numbers if available and not over one month old, 20 cents each. From one month to six months old, 50 cents each; over six months old, \$1 each. In ordering change of address, give old as well as new address.

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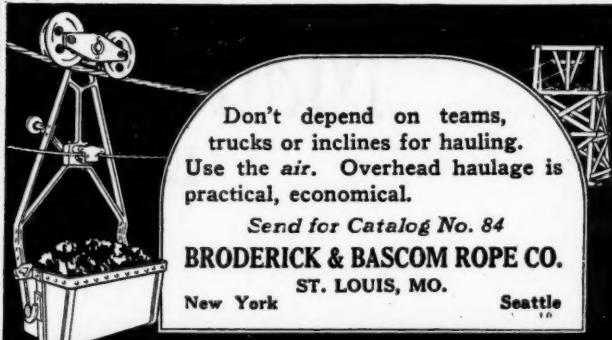
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Vol. LXXXVI No. 2
Weekly.

BALTIMORE, JULY 10, 1924.

{ Single Copies, 20 Cents.
\$6.50 A Year.

The Low Tariff Plank as Seen by Southern Leaders in Agriculture and Industry.

THE farmers of the South through individual and united activities have during the past year or more stressed the importance of a protective tariff to safeguard them from competition with the pauper labor of the Orient.

The American Cotton Manufacturers' Association, representing the entire cotton-mill industry of the South, at its annual meeting in May vigorously upheld the need of a protective tariff on cotton goods, even higher than that which we now have, to prevent the flood of cotton goods which is coming to this country made by cheap European labor.

The National Association of Manufacturers, representing in a large sense the entire manufacturing interests of the United States, employers and employees alike, passed a resolution urging upon both political parties a protective tariff which would save the American standard of living as against the competition which is now upon us, and which threatens to grow still greater, from labor in the Orient and Europe which is paid in most cases less than one-tenth of the wages paid in America, and in many cases the pay is scarcely one-twentieth.

Individual farmers and individual manufacturers and business men throughout the South have voiced their hearty commendation of these demands of farmers' and manufacturers' associations in behalf of a protective tariff. Notwithstanding this situation, the Democratic platform denounces the present tariff bill, which saved the country from ruin, and demands a readjustment on a lower basis. That plank if put into effect would produce disaster throughout the United States.

In reply to telegrams as to their views on the situation we have statements from President Edgerton of the Tennessee Association of Manufacturers, who is also president of the National Association of Manufacturers, and John H. Kirby, president of the Southern Tariff Congress, and from G. T. McElderry, president of the Alabama Division of the Farmers' Educational and Co-operative Union. These three men are Democrats. They have been allied with the best interests of the South, agricultural and industrial. No two men in the South have accomplished more for the upbuilding of this section and for increasing its wealth than President Edgerton and Mr. Kirby.

Wherever industrial progress is known, wherever great achievement is honored, wherever righteousness is exalted,

John H. Kirby and President Edgerton are recognized as outstanding leaders of the South. Their views and those of Mr. McElderry show the trend of thought in the South, which is in direct line with the views long expressed by the MANUFACTURERS RECORD.

The tariff should be an economic policy pure and simple; but the Democratic party, misled by politicians instead of being led by statesmen, has again issued its demand for a low tariff, which practically means free trade.

The Underwood tariff very nearly bankrupted this country. It increased the number of bankruptcies beyond anything which we had previously known. Industrial interests were staggering to their ruin when they were saved by the European War. So long as the war lasted we had a war-made prosperity, and when that prosperity ended we had 5,000,000 idle laborers vainly seeking for work. But under the Fordney-McCumber tariff bill there came increasing prosperity, unemployment practically ceased, and the demand for laborers exceeded the supply.

The very uncertainty of the political situation, with a certainty of a return to a low tariff should the Democrats win the coming Presidential election, is again responsible for some halting in the business conditions.

Surely the time has come when the South should demand, and enforce that demand, that its politicians give way to men of affairs, to men who are willing to save their section and the country at large from ruin in competition with Europe and Asia.

By reason of the depreciated currency of Europe and the realization by Asia of its opportunity to force its goods into this market, the danger of being flooded with pauper-made products of the farm and factory is greater than ever before in our history.

We are at the most crucial point of our nation's business life that we have had to face for many a long day, indeed for many decades; for never before was the ability of Europe and of the Continent as great as at present to flood this market with products made at a rate of wages with which the people of the United States cannot possibly compete.

The man who is willing to see the Southern farmers forced to compete with Oriental labor at 5c to 10c a day is an enemy of humanity.

The man who is willing for his own selfish ends to break

down the cost of raw materials which enter into his manufactured products, regardless of the hardship thus forced upon American farmers, is unpatriotic to the core, it matters not who he is, or what his protestations of patriotism may be.

The man who wants to break down the wages of American labor by bringing in without an adequate tariff the manufactured products of the Orient and Europe is false to the welfare of his country and of mankind, and seeks enrichment for himself at the expense of American labor.

Before such issues as these party ties are valueless.

It is a time for a new alignment of parties. It is a time for a party of Americanism and conservatism, as against the radicalism, the internationalism and the free-trade-ism which are united through radical Democrats and Republicans alike. In this present contest it behooves the farmers and the business people of the South to recognize the supreme necessity of saving themselves from the curse of demagogic politicians.

The South has vast resources on which to build the greatest civilization the world has known. It has resources in Anglo-Saxonism surpassing those of any other country. It has resources in raw materials of many kinds. As it utilizes these resources to the fullest extent it can increase its wealth and thus increase its power in world affairs. Wealth rightly won and rightly used comes from the Almighty Himself. In the 8th chapter of Deuteronomy the Almighty said to the people of Israel: "But thou shalt remember the Lord thy God, for it is He that giveth thee power to get wealth." And in the story of Job, revealing vast increase in his possessions, it was said that the Lord blessed the latter end of Job more than his beginning, and then the story recounts the great increase given to him by the Almighty in his worldly possessions.

False in the extreme is the view of those who sometimes would decry commercialism and who would sacrifice the prosperity of their constituents and their country for false economic theories. The South should concentrate its energies upon the fullest utilization of the latent powers of its own people and of its limitless raw materials. It should seek to turn these things into wealth with which to bless the land. It should rejoice in a rate of wages which would give profitable employment to every man and woman needing work, for in this profitable employment there would come a stimulation to the mind and the soul, and an uplifting influence that would bring to this section a larger degree of material prosperity than it has ever known; and with that, if wisely guided, would come a larger development of its educational, its moral and its religious advantages.

All of this depends to a great extent upon a protective tariff which will safeguard this country from the pauperizing labor of the Orient which has existed through the centuries, and the labor of Europe pauperized by its currency system, which gives to its producers an opportunity to manufacture at starvation wages for its laborers, and to put these goods on the market in competition with the products of American labor paid a living wage.

Without prosperity there can be no educational or moral

advancement. Upon profitable business depends the ability of a people to support their churches, their missionary activities and their educational work. Whenever a country grows poorer, its educational and religious life declines.

We commend to every reader the telegrams from President Edgerton and Mr. John H. Kirby, and the letter from Mr. McElderry, which follow:

John H. Kirby, One of the South's Business Creators and a Life-Long Democrat, Protests Against the Tariff Plank of the Democratic Party.

[Telegram to Manufacturers Record.]

Houston, Tex., July 3.

As a citizen who is deeply concerned about the welfare and progress of our people, I must protest against the tariff plank in the platform of the Democratic Madison Square Garden Convention.

At the time the Emergency Tariff Act of 1921 was passed, to be followed later by the Fordney-McCumber permanent law, many factory doors were closed, agricultural and livestock pursuits were on bended knee, begging for aid and more than five million people in America were out of employment. Today, as every informed man knows, the situation is vastly different. A fair measure of prosperity has been ours since the present tariff law was enacted.

In the South, where Democracy has its stronghold, the improvement has been most pronounced. All farm products are higher. The peanut growers, the cottonseed producers and those men of the hills who raise our domestic supply of wool are on their feet again and our labor is fully employed. This is one of the direct effects of the Fordney-McCumber bill. To me it seems base ingratitude for the Democratic party to condemn the instrument responsible for these improved conditions.

The same convention that put the stamp of condemnation upon this law committed itself to the proposition of aiding the American farmer. It is proposed to do that by again placing vegetable oils upon the free list and giving every peanut grower and cotton farmer in the South a Chinese Chink for a competitor. It is well known that vegetable oils from the Orient are capable of displacing, and will, under free trade, displace, the principal agricultural products of the South in our home market.

We are fairly prosperous all over the South because of the agricultural schedules of the Fordney-McCumber law.

The farmers should not be deceived by these politicians who are telling them that this law gives no benefit. Farm machinery is admitted free. Harness of the class that the farmer uses is admitted free. But, even though this were not true, the farmer is a producer who has more to sell than he is required to buy and it is of infinitely greater importance to him to have a good market than to have the privilege of hunting bargain counters.

I am a Democrat of lifelong standing. No man believes more strongly than I in adhering to the principles and policies of the great leaders of our party—Jefferson, Madison, Calhoun and Jackson—who established the prin-

ciple of protection to American industry in the young republic and adhered to it faithfully for fifty years. In fact, only one of these four great leaders changed his views upon the subject and that was Calhoun. When South Carolina thought it saw its future destiny dinked with the proposition of selling its slave-produced cotton to England, Calhoun advocated an open port to all the world. He said that his state would never enter the realm of manufacture and that her interests demanded a policy that would not disturb in any manner the exchange of the products of American fields for the finished goods of Great Britain.

What a colossal blunder that was! Today, his great Commonwealth consumes in its textile industries more cotton than all the South in Calhoun's day produced.

Those upon the farms and ranches, those in the mills and work shops, those who labor everywhere should not longer be deceived by the politicians who adhere to the fetish of free trade, and should not for a moment consider a return to the distressing free raw materials period of 1920, which closed the door of hope to every American toiler.

A declaration in favor of tearing away the barriers which safeguard the industries of America is a declaration in favor of lowering the standard of living in every home where the family is dependent upon production or toil for its sustaining prop.

John Henry Kirby.

President Edgerton of the Tennessee Manufacturers' Association Denounces the Democratic Tariff Plank.

[Telegram to Manufacturers Record.]

Nashville, Tenn., July 3.

I share fully your deep dissatisfaction with the tariff plank in the Democratic platform just adopted in New York. It seems to be based upon nothing except an arbitrary determination to get as far away from the Republican position as possible without reference to the merits of the issue. It demonstrates the fact that at least in this respect the leadership of the party is without vision and without an intelligent understanding of the importance of industry and its needs.

There is scarcely a manufacturer in the South or in the nation who does not know that if American industry is to thrive it must be at all times adequately protected against the cheaply made products of foreign countries. When American industry thrives the whole country thrives, but when factories are shut down throughout the nation there is depression everywhere. Many of them are shut down now because they cannot compete with their foreign competitors who pay their labor from 25 to 50 cents per day.

It is clear to any man of reason that without adequate protection we cannot maintain our high wage standards nor keep our people employed. If they do not have jobs they cannot buy the wares of merchants no matter how cheap they may be nor where they come from.

When we are ready to abandon our high wage standards and adopt the living conditions which prevail in Europe we will be ready to adopt the Democratic tariff platform.

It is time for the manufacturers and business men of the South particularly, to rise up and demand of the Democratic

party a more decent regard for and a more enlightened leadership touching this question.

The industrial future of the South requires that the political party to which it has been giving its support consistently try to adjust itself to changing conditions and manifest a larger interest in industrial welfare.

J. E. Edgerton, President.
Tennessee Manufacturers' Association.

"Whom the Gods Would Destroy They first Make Mad,"
Says Farmer McElderry, President of the Alabama
Division of the Farmers' Co-Operative Union
of America.

The Farmers' Educational and Co-Operative Union of America, Alabama Division.

Birmingham, Ala., July 3.

Editor Manufacturers Record:

It has been truly said that "donkeys and fools never change." The Underwood low tariff permitted vegetable oils to come into this country almost free, resulting in the impoverishment of farmers, bankrupting merchants, destroying the cottonseed oil industry and solidifying bank credits. Hundreds of millions of pounds of peanuts, peanut oil, soy bean oil was imported from Manchuria, absolutely destroying our market for cottonseed, peanuts and fats. There was practically no demand, and farms were sold for taxes and the doors of merchants were closed because the farmers could not cash their products to meet their obligations.

The Fordney Emergency Tariff raised the price of cottonseed to \$60 per ton and the price of peanuts to \$140 per ton, with practically an unlimited demand, and yet the Democrats in New York were foolish enough to denounce the Fordney tariff, which had saved the South from bankruptcy.

All credit to the Republican leaders for having patriotism enough to save the South from Democratic bungling and asinine theorists who pretend to represent the South in Congress. All farm tools, farm machinery, shoes, leather goods and harness used on the farm are on the free list, and 64 per cent in value of the commodities imported come in free under the Fordney-McCumber tariff, and yet our Democratic, so-called, statesmen would bankrupt our syrup and sugar makers as in 1913, when 40,000 laborers in Louisiana were put up against starvation because of a theory, at a time when sugar could be bought for 4 cents per pound. They would put the rice and tobacco growers out of business, the poultry and hay raisers, the citrus-fruit growers and our entire Southern agricultural population would be placed on a competitive basis with cheap Chinese coolie labor that receives 8 cents to 10 cents as a daily wage. Our laborers in the factories and shops would be placed on a competitive basis with the pauper labor of Europe and forced to live on their low standard, with a wage so low that we farmers could not sell our products at even the present low price, which price is driving hundreds of thousands of farmers annually to the cities, to congest the population and raise still higher the cost of living.

The platform committee, instead of deciding on some definite policy and suggesting a constructive plan to rehabilitate agriculture, contented itself with denouncing the Republican party for its failure to enact a law, and thinks the farmers will be content to support the Democratic party as in the past on promises. The farmers have decided to look out for statesmen and give the machine politicians, owned by corporations, a little vacation to enable them to study economics.

The policy of the Eastern Democrats is to have free trade as far as is practicable, so as to get our gold back to Europe, that European nations may pay the loans made by Wall Street banks to European countries. The East has always

dictated the Democratic policy, and dominated the Democratic caucus, as well as selected the man we of the South are to vote for as a Presidential candidate. Democratic Congressmen who take dictation from the Democratic caucus and support measures hurtful to Southern interests need not be surprised to find some one else representing the farmers in the next Congress.

All the claptrap about freight rates and waterways will not take the place of something definite in the way of better marketing facilities and equal opportunity to get Government money at the time of harvest, so as to prevent 12 months' supply of farm products being dumped on the market at a time when there is no demand for it. It is not freight rates so much as manipulation by the distribution agencies that is keeping the farmers' products below the cost of production.

If there had been a lack of confidence on the part of the people of the United States in the Democratic party, they are now firmly convinced that the country would be ruined if our affairs of state were placed in the hands of the crowd now wrangling at New York. If there is a statesman worthy of the name at New York, he certainly was not placed on the platform committee.

G. T. McElderry, President.

WHY A GREAT GOVERNMENT LAW SUIT CREATES NO RIPPLE OF INTEREST.

WHETHER the action instituted by the Department of Justice to enjoin half a hundred oil companies from further alleged violation of the Sherman Anti-Trust law be sincere and well-founded, or merely a partisan move in a political campaign, remains to be seen; unless and until proof to the contrary be presented, it must be accepted as sincere, at least.

According to Government contentions, these companies have combined to control gasoline production by pooling patent rights and also have formed "combinations in restraint of trade" with other domestic and foreign concerns. To which the chairman of the board of directors of one of the defendant companies replies that these contracts have been in effect 10 years without governmental attack, and that they are willing to submit these contracts for adjudication by the courts.

The MANUFACTURERS RECORD yields to no one in emphasis and sincerity in demand for full enforcement of every law; it holds no brief for the companies now involved. Yet, it recalls, as will its readers, more than one instance in which such attacks on corporations have been made for political effect, and without thought of injury that might be wrought on innocent, modest holders of corporation securities. Hounding corporations long has been a favorite sport with practical politicians and demagogues; it has been carried to such extent that faith in the good intent of Government prosecutions has been weakened by failures to show cause. The present case, or any other, may be full of merit and more than justified by conditions; but, the fact remains that corporation-baiting has become such a political practice that the people have lost interest in it.

Unwarranted prosecution of corporations, amounting really to persecution, strangles public confidence in business and in sound, legitimate investment. It is harmful to the country's morale and its financial stability. "Let no guilty man escape," is a good adage; but, just because corporations, like the proverbial dog, have been given a "bad name" by demagogues and politicians is no reason that they should be hanged, offhand, for political effect.

WERE THEY REALLY "AMAZED"?

DR. HUGH YOUNG, a distinguished Baltimore physician and surgeon, in commending Governor Ritchie of Maryland before the Democratic convention as a Presidential candidate, said:

"His grasp of national problems is great, as shown by his wonderful Jefferson Day speech in New York city. His demonstration that it costs us four to six times as much to pay for the expenditures of the National Government as it costs to run our own states amazed everyone at that great gathering."

If Dr. Young is correct, then that gathering must have been composed of very ignorant or very thoughtless people. Surely, these men, if intelligent, knew that with a debt of over \$20,000,000,000, due to the war; with an interest account on it of more than a billion dollars a year; with hundreds of millions annually required as a sinking fund and hundreds of millions for the support of an Army and navy and other hundreds of millions for pensions and for disabled veterans, any comparison of state and Federal taxes is so stupidly silly as to be unworthy of any thoughtful man.

We wonder if Dr. Young ever stopped for a moment to consider these facts before commanding a speech which on this point alone was unworthy of a high school graduate's commencement oration.

If the people at that dinner were "amazed," as Dr. Young says, and if they were fairly intelligent men, then their "amazement" must have been that a public man should make so silly a comparison between state and Federal taxation. We are not surprised that politicians "play to the galleries" with such silly stuff as Governor Ritchie put forth about taxation, but we are surprised that a man of Dr. Young's eminent abilities should take such things seriously and be "amazed" at them.

THE HIGH PRICE OF IMPROVING HORSEFLESH.

DESPITE the experiments in Maryland and New York in the summer and in New Orleans in the winter, no announcement yet has been made as to whether plain "bookmaking" or "pari-mutuel machine" betting contributes the more valuably to "improving the breed of horses in the United States," that being advanced as the primary, if not only, reason or excuse for horse-racing as now conducted. Of course, the breeding of horses is dependent on betting; but, which kind improves the breed the more? As gambling is much more easy under the pari-mutuel system, one may surmise that this is the better system to develop fine horseflesh; also, in Maryland the state gets a "rake-off" of millions. Both contribute about evenly, however, to the demoralization of the people, to the population of prisons, to the breaking of innocent hearts and to the filling of suicides' graves.

BUILDING ACTIVITY IN HOUSTON.

THE Chamber of Commerce of Houston, with a spirit of energy and initiative which we wish prevailed in every commercial organization in the South, sends the MANUFACTURERS RECORD the following wire:

"The June building permits in the City of Houston amounted to \$1,452,243. Houston metropolitan district permits to \$2,270,243. From the beginning of the year to July 1 the City of Houston permits amounted to \$9,106,920, while the Houston metropolitan district issued building permits amounting to \$12,952,526."

This is a record of which Houston may well be proud. We congratulate the people of that city upon the remarkable growth indicated in these building permits.

"The Youth Movement" in Colleges With Its Trend to Socialism and Other Evils.

SEVERE CONDEMNATION BY SOME COLLEGE PRESIDENTS AND COMMENDATION BY OTHERS.

THE Massachusetts Public Interests League of Boston, an organization officered by women, Mrs. B. L. Robinson being president, has issued a pamphlet entitled "The Youth Movement." Mrs. Robinson assures the MANUFACTURERS RECORD that every statement made in that pamphlet has been verified.

In "The Youth Movement," some extracts from which were published in the MANUFACTURERS RECORD last week, are given many very remarkable statements which should be read by all patriotic, moral-minded men and women in America.

The origin of this Youth Movement is traced to Germany, where "in the beginning boys and girls, revolting against the tyranny of the schools under the Hohenzollern reign, formed themselves into groups to roam through the mountains, and to play their games and to sing their songs, and to enjoy untrammeled companionship." But as time went on, according to this pamphlet, "the movement became the vehicle for propaganda, notably for communism, which brought with it a revolt against home restraint and family ties, the carrying of freedom in education to a ludicrous extent, the cult of nudity, and the relationship of the sexes which threatened moral chaos." The pamphlet says:

"The Youth Movement, as started in Germany, was a revolt against conditions *in that country*. It is now being transplanted to this country. Why? Are our youth so enslaved by their schools, so cut off from free social intercourse and healthful relaxation, that they are forced to revolt against existing conditions? To ask the question is to answer it. What, then, is behind the attempt to introduce the movement in this country?

"The organization which has done the most to spread a knowledge of the Youth Movement in this country is the National Student Forum, an organization made up of those elements in the colleges which have at different times called themselves Intercollegiate Socialist Societies, Liberal Leagues, and Leagues for Industrial Democracy. Miss Pendleton, president of Wellesley College, is quoted in the Boston Sunday Post of May 27, 1923, as saying 'The Intercollegiate Socialist Party is no longer in existence, though I believe that many of its elements have since been incorporated in what is now known as the League for Industrial Democracy.' It was Lenin's cleverness which suggested 'frequent change of name' to radical organizations. This bewilders the public, and the new names serve as an alias.

"One of the first steps taken by the National Student Forum to introduce this movement was to distribute in colleges all over the country copies of an article by Bruno Lasker, published in the Survey Graphic for December, 1921. This article describes the Youth Movement with enthusiasm as an 'insurgence against age,' and as having 'broken all ties with merely protective societies organized for the young by the old.' Mr. Lasker says, 'It is introducing new and stimulating elements. One of these is the cult of nakedness.' He adds: 'It is when we come to the problem of sex relations that the ethics of the movement become most distinctive; for it is of no monkish asceticism,' and he tells in particular of one leader in the movement, Herr Muck-Lamberty, who 'with a following of twenty-five youths and girls, suddenly appeared out of the lap of the gods, as it were, beautiful as the prince of a faery tale, eloquent as a preaching monk of the Middle Ages, walking from town to town through the forests of the mid-German hill country, leading the children in harmless games of a cheerfulness they had never known, teaching the young men and women dances and songs drawn from the very sources that had once flown rich in this ancient home of the German spirit, exhorting old and young to join in the crusade for a new fatherland that shall be free and merry.'

* * * But one day it was discovered that they were living not only in economic communism but also what seemed at first complete sexual promiscuity. Before the tribunal of his former friends and sympathizers in the Youth Movement Muck admitted everything, even that, in complete agreement with the women with whom he had lived, he was taking no responsibility for the support of the children that had resulted from these unions. This was written by a friend of the movement and circulated in our colleges by a committee of the National Student Forum."

From these brief extracts from the Youth Movement pamphlet some idea can be gained of the tremendously dangerous tendencies of such an organization.

It is claimed that out of this Youth Movement in Germany has originated the Student Forum Movement in this country, apparently sponsored by many of the most radical of the radicals in America; and referring to this the Youth Movement pamphlet says:

"Various echoes of the teachings of these foreign students in our colleges have been heard. The mother of a Dartmouth student wrote that they preached at Dartmouth 'a brand-new kind of freedom, tabooing all family ties or parental authority; a sort of cut loose and free for all kind of philosophy. Something of socialism, communism and free love was being administered by these young men in sugar-coated doses.' Evidently their teaching at Dartmouth has born fruit, as the student organization known as the 'Round Table,' under whose auspices they spoke, announces as its speakers for this winter William Z. Foster, Rabbi Wise and Bertrand Russell, and hopes to secure Roger Baldwin, Morris Hillquit and other choice radicals. That Bertrand Russell's views are those of the advanced feminists and Socialists is shown in an article by him in the Century Magazine of November, 1923, in which he states that the average woman will not submit to the restraints of the old-fashioned marriage or remain faithful to one man when she can be economically independent. He says that 'women will share their children with the state rather than with the husband, not invariably, but in a continually increasing proportion of instances,' and that he is 'not concerned whether this change is desirable or undesirable.' 'The state,' he says, 'must ultimately take over the whole economic burden of the maintenance of children.' This means, of course, the destruction of the institution of the family, and the substitution of the Communist doctrine of the herd.

"The National Student Forum already has organizations co-operating with it in the following colleges: Barnard, Bryn Mawr, Dartmouth, George Washington University, Harvard, Hood College, Hollins (Virginia), Howard (colored), Mt. Holyoke, Miami University, N. Y. University Law School, Northwestern University, Oberlin College, Park College, Rockford College, Radcliffe, Stanford University, Swarthmore, University of Chicago, University of Colorado, Union Theological Seminary, Vassar College, Wellesley College, Western College and Yale.

"On June 27, 1923, seven American students (three girls and four men, one a negro) sailed as steerage passengers from New York to be the guests of the youth of Germany for the summer. Their names and accounts of their experiences are given in the 'New Student,' for November 3, 1923. The girl who went from Radcliffe writes: 'Shortly after we arrived in Germany we went on a "wandering" into the country—a hike we would call it. We made a picturesque group as we wound among the woods and fields. There were boys with bare legs and sandals, and the ever-present short trousers of the "Youth Movement," girls with their hair down their back, barelegged too. One of them had a guitar and to its accompaniment one old German folk song after another, sung with rich harmony, resounded through the woods. Later we went in swimming in a quiet stream which flowed between partly mowed meadows, and I remember the beauty of the sunlight on their gleaming bodies as they took running dives into the water or played ball on the banks.'

"Is the movement, as some have maintained, a religious movement?"

"It can certainly not claim to be a Christian movement, as

some of its leading advocates are Jews and many disclaim all religion.

"The New Student," published under date of March 3, 1923, a double-sized issue called "Special Supplement published in Germany," which contains an article by Walter Pahl of Lipsic, on "The religious moment in the German Youth Movement." The following quotations show its tenor: "Then at last, the cry that had been waiting so long for outbreak, tore a gap in the blue celestial submissiveness, "God is Dead." A cry, accusation and longing in one! We became the enemies of the church. * * * We destroyed the false gods within us, denied doctrine and dogma. Our blood throbbed and pulsated with yearning. We recognized no more the imperative command of duty, because the law of our pulsating blood became manifest to us. * * * This new god was a gift to us—the body! We felt the order of the stars again renewed in our bodies, which were beautiful. * * * We must regain the body through our yearning, we must reconstruct matter if we wish to find God. And we knew—we are Christians no longer!—We wish for man, the entirety—and not a part of him. And so we released the body—and danced the dance of the earth and the stars within us. Religious emotion to a great part of our German youth can only be understood through the medium newly discovered—the body. It seems as if the pacifists and communistic youth had forstalled us in many ways, whilst we are only slowly plodding our way to them. It is certain that no new religious system like that of Christianity can result from our new faith—but our aim is not to create systems. We do not wish for any religion out of our real life."

Much more of the same kind appears in this pamphlet.

The editor of the MANUFACTURERS RECORD sent to each one of the colleges mentioned in the pamphlet as having National Student Forum or affiliated organizations the following letter:

"I enclose a copy of a pamphlet entitled 'The Youth Movement' which is so startling in the significance of the statements made that, as your college is mentioned on page 6 of the pamphlet, I shall be very glad if you can give me your views on The Youth Movement as outlined in this pamphlet and the activities of the National Student Forum, of which it is said there is a branch in your institution."

Some of these replies are interesting and very strong in condemnation of this movement, pointing out its dangerous tendencies. Some college presidents, however, come very near endorsing or condoning it, and the president of Vassar in the course of two letters received from him makes some statements which we think will strike our readers as indicating a trend of thought quite contrary, we believe, to the views of men and women who have not come under the influence of this sort of teaching.

President of Vassar College Takes a Position That to Us Is Incomprehensible.

Vassar College,
President's Office.
Poughkeepsie, N. Y., June 16.

Editor Manufacturers Record:

In answer to your letter of June 12, may I say that the Political Association of Vassar College includes all shades of political faith in its membership. For purposes of securing speakers and other branches of co-operation I believe that the Association is affiliated with the National Student Forum, although it is entirely independent of the Forum in the conduct of its own affairs. The president of this Association for the past year has been Miss Marjorie Marston, who may be reached by letter addressed to Vassar College.

You ask for my views on the Youth Movement, and the activities of the National Student Forum. My views are that the Movement deserves very careful and dispassionate study and very thoughtful and wise handling. Pamphlets written in an excited manner, like the one that you enclosed, are only calculated to make the movement more popular by exaggerating the importance of their activities in linking them up with international communism and by making them popular martyrs.

The articles of authors quoted in the pamphlet make an absurd combination. To link up the Student Volunteer Movement for Foreign Missionary Service with Zinovieff and the Russian Communists is typical of such pamphlets. For the organizers of the Youth Movement in Germany, who

comprise a very small part of the student body, I have only the deepest sympathy. They have lived under conditions so intolerable that any form of extreme reaction would be forgivable, "for they know not what they do."

You are, of course, aware that the great majority of the European students and professors are extreme anti-Communists, and even monarchists, and that in the countries where the doctrine of fascism has held sway students are its strongest supporters. In many countries in Europe student conservatism has shown itself in anti-Semitism so violent as to cause the closing of universities.

With the desire of American students to hear a presentation of different theories of the state and social organization I am in sympathy, and my position is exactly that of President Hopkins of Dartmouth if I understand it correctly.

Let me say to you that the American democracy and the Constitution of the United States will not be saved or preserved by the violent suppression of personal liberty or the right of free speech. They will be saved only by good government and impartial justice, with fearless and equal enforcement of law to all. The revelations of bad government in Washington during the past year and the incompetency of Congress, which was acknowledged by the keynote orator of the recent Republican Convention, are ten thousand times as dangerous to the integrity of the American State as are the enthusiasms of the Youth Movement among the few hundred young people affected.

You have asked me a question. I will ask you another: What are your views on the Ku Klux Klan and its influence on American politics? Will you explain to me how American teachers can inculcate respect for political parties which carefully avoid all mention of the Ku Klux Klan in their political platforms?

H. N. MACCRACKEN.

In view of the quoted statements in "The Youth Movement" pamphlet as to the wild orgies of nude young German men and women we are at a loss to comprehend how the president of a womans' college of Vassar's standing should take the ground "that any form of extreme reaction would be forgivable for 'they know not what they do.'" To use this expression of the Son of God to excuse the open violation of all moral decency seems to us to be incomprehensible.

In reply to a second letter raising this point and expressing the views of the MANUFACTURERS RECORD against Ku Klux Klanism, President MacCracken wrote:

"Referring to the second paragraph of your letter of June 17, may I say that it is difficult to understand why the principle of forgiveness should be regarded as failing to recognize immorality produced by abnormal conditions, and may I express my very grave doubts of the trustworthiness of the reports of the Youth Movement included in the pamphlet?"

"I have known some of the leaders of this movement, and they are very deeply religious and moral young people, and would be an example to any Americans."

There is nothing whatever in the pamphlet "to link up the Student Volunteer Movement for Foreign Missionary Service" with the "Youth Movement" or the Student Forum Movement and we are at a loss to understand why Dr. MacCracken drags the "Student Volunteer Movement" into the discussion.

Disgusted With "So-Called Patriotic Organizations" and Newspapers.

President's Office,
Rockford College.

Rockford, Ill., June 14.

Editor Manufacturers Record:

I have received your letter enclosing an unsigned* pamphlet on the Youth Movement. I wish to say that it is just about time that an intelligent investigation be made into our colleges. You say that on page 6 the name of our college appears as a member of some horrid band of Bolsheviks and cut-throats. To my certain knowledge there have been all sorts of messages given to the press regarding conditions in this college and that, and in each case, so far as the middle West is concerned, I have attempted to make an investigation on my own part and find no substance.

I am not an advocate of the Youth Movement, I do not support any phase of socialism. I am not a pacifist in the commonly accepted term of the word; but, of course, I believe that all intelligent Christian men are against war. I feel

that we are in rather good company on page 6 of your pamphlet. You will notice that practically all the women's colleges are there.

You will be interested to know that I participated in the establishment of a club here called the International Relations Club, prompted by the work of Dr. Paul Monroe, my chief at Teachers College up until the time I came here, and others. When the National Student Forum was organised they simply listed all of the clubs of this kind on their letterhead. So far as I can understand, there is no closer connection, and I know what goes on in our meetings, and I know the class and caliber of our students. We were the subject of a visit by George Pratt and a group of his students, who went through thirty or forty of the colleges and universities last year, but I heard everything they did and felt that their influence was rather negative than bad. Our students pushed them so hard for a positive program that they had difficulty in meeting the situation. We regarded them as just youth in rebellion against the insanity of your and my generation's part in bringing about the World War and our failure to adjust social conditions in modern society, etc. Of course, they will not do any better job than we have, and certainly we have made a pretty bad mess of it.

My father was born in your city of Baltimore, and members of our family have lived in Maryland since 1650, near St. Mary's. There has been an officer contributed from our family in every colonial and national war we have had since that period. Hence I am in a position to repudiate any attacks on my own patriotism when I say that I am very much ashamed of the terrorism that is being practiced against the people whom we may not agree with, just as I am disgusted with the methods that the newspapers are using against certain misguided youth. I have been trying to keep them in line on an even keel for a good many years, especially the last five, and find that much of the work of certain so-called patriotic organizations is seriously hindering me in correcting whatever tendencies on the part of the Youth Movement that may be dangerous to our common life.

W.M. A. MADDOX.

[*The pamphlet "The Youth Movement," to which Dr. Maddox refers, was issued over its own name by the Massachusetts Public Interests League, an organization of women, its objects, as stated on its letterheads, being, "1st, To defend the Constitution of the United States, and to oppose bureaucratic and Socialist legislation; 2d, To aid in furthering causes which are of importance to public welfare." Dr. Maddox seems entirely to overlook the fact that the World War, as far as the Allies and the United States was concerned, was a struggle to save civilization from being overrun by atheistic barbarism. If that was "insanity," as he seems to indicate, then may Heaven save this country from teaching of that kind instilled into students under the guise of The Youth Movement, or The Students' Forum, or any kindred activities in our institutions of learning! Dr. Maddox denounces the work of "certain so-called patriotic societies" and he is "disgusted with the methods that the newspapers are using against certain misguided youth." We have not seen much in the newspapers on this subject, but perhaps the newspapers which have discussed it, and the "so-called patriotic organizations," realize the danger of just such loose thinking as that presented in the letter from Dr. Maddox.—Editor MANUFACTURERS RECORD.]

Dr. King of Oberlin Thinks "Youth Movement" Pamphlet Misleading.

Oberlin College,
Office of the President.

Oberlin, Ohio, June 17.

Editor Manufacturers Record:

I should say that the pamphlet you sent me, called "The Youth Movement," was not calculated to make a very correct impression as to the facts. Certainly the mere fact that Oberlin College has an organization co-operating with the National Student Forum carries with it no such implication as you seem to have in mind.

HENRY C. KING.

Overthrow of Long-Cherished Theories Promised.

Howard University.
Office of the President.
Washington, D. C., June 21.

Editor Manufacturers Record:

I have your letter of the 18th. This movement is but a necessary reaction following the awful war. The extreme is pictured. A society at Howard University is but a private group. This group is finding itself and getting its bearing without a sense of suppression. The outcome will be an overthrow of many long-cherished theories but a newer and more real sense of life's values.

J. STANLEY DURKEE.

A Missouri College President Who Has No Sympathy With the Student Forum Scheme.

Park College,
The President's Office.
Parkville, Mo., June 16.

Editor Manufacturers Record:

Thank you for your letter of June 12, calling my attention to the pamphlet entitled, "The Youth Movement," in which it is stated that Park College has an organization in connection with that movement. I had not seen this pamphlet and wish to deny most emphatically that we are in any way connected with this radical movement. Three members of the Student Forum were on our campus a day or two year before last and stirred up more discord and dissension than we have had on the Park College campus since my connection with it eight years ago.

As a partial result of that experience we refused to enroll three or four students last fall who had been active in it, and also parted company with one professor who had been at the head of the movement. I have no sympathy at all with the things that organization stands for, and assure you that they have no following on our campus.

F. W. HAWLEY.

A Strong and Wise Stand Against the Attempt to Push Socialistic Movements Into American Colleges.

The Western College for Women,
Office of the President.

Oxford, Ohio, June 16.

Editor Manufacturers Record:

This is in reply to your letter of June 12 enclosing a pamphlet entitled "The Youth Movement." I very much appreciate your kindness in sending me this pamphlet, as I had not seen a copy previously.

We have been very much embarrassed by having the name of this college appear in connection with that of a few other colleges as a member of a national student forum. The facts are that we never had such a membership. Three or four years ago our students were invited to send a representative to a meeting in Chicago. They very innocently accepted the invitation and one of our teachers and one of our students attended the meeting. Nothing appeared at this time which indicated the Socialistic tendencies which are indicated in this pamphlet you have sent me. Our representatives returned to college and organized a college forum for the open discussion of problems. About four months later they came to me to inquire whether they could invite a prominent Socialist to lecture at the college. This started an inquiry regarding the whole situation, and I discovered that there was an effort being made to use our institution to further the ends of socialism. Although the lecturer had agreed to come without expense to the college, we immediately notified the students that such lecturers could not be brought here. We then presented the whole situation to the student body and showed to them how innocently they had been drawn into a trap. Our local forum was immediately suppressed, and the students themselves repudiated the entire effort to draw them into any co-operative movement for the promotion of what now appears to be the Youth Movement.

We thank you for the information you have given us, and will appreciate every assistance you can give us in preserving our reputation from such wild vagaries.

W. W. BOYD, President.

**A Southern College Which Sees the Truth and Stands for It—
Would That All Others Saw as President Dawson
Does the Dangers of This Move to Establish
Socialism in Our Colleges.**

By mistake a letter was addressed to the President of Howard College of Birmingham, Ala., which brought forth the following very interesting and striking reply worthy of its honored President:

Editor Manufacturers Record:

I have just read your letter of June 12 and the pamphlet entitled "The Youth Movement," and I am hastening to reply. You stated in your letter that Howard College is mentioned on page 6 of the pamphlet, "The Youth Movement." On referring to that page I find that the Howard mentioned is the colored school, Howard University, located at Washington. Howard College is a school for whites only, maintained by the Baptists of Alabama.

Howard College is in no wise concerned with the New Student Movement. I have been watching that movement carefully for the past several years. Two years ago an attempt was made to interest certain students here, but when I explained to them what was back of the movement our students were only too glad to be hands off. I am sure that an attempt has been made, or will be made, to introduce this movement into every college and university in the country. As long as I am president of Howard College it will get no foothold here.

While writing I wish to say that I sincerely hope that American institutions of learning will never come again under the domination of German ideas. I think the greatest curse that has ever befallen American education was the German influence before the war. Especially was this true of our Christian colleges. Under the German influence there was a continually growing sentiment against the church colleges. With the coming of the war that sentiment passed away and the Christian colleges of America are flourishing today as never before.

JOHN C. DAWSON, President.

The only reply we have been able to secure from Miss Matty L. Cocke, president of Hollins College, Virginia, is a telegram, saying:

"I have no statement to make for publication."

We cannot interpret that as to whether it means for or against, but in view of the high reputation of Hollins as a Southern woman's college we trust that it means that Miss Cocke stands with the other Southern colleges from which we have heard, but we regret her failure to express any opinion on the matter.

"The Movement Would Like to Have a Free Swing in Colleges," but It Is Not Allowed to Have Its Way in Hood College.

Hood College,

Frederick, Md., June 14.

Editor Manufacturers Record:

Replying to your inquiry of June 12 concerning "The Youth Movement," I would state that it has been sponsored here by three or four students to whom its particular appeal has made a deep impression and who have been zealous in its cause beyond their associates of the student body. These few have undoubtedly held extreme views and have had to be held in check by the college authorities. We have not allowed them to secure speakers without our approval nor to carry matters further quite so vigorously as they should have liked. All of these ladies graduated with the outgoing class, and we are not particularly anxious to have anyone succeed to their places.

The movement undoubtedly requires watching, guidance and, probably, safe-guards if it is not to become an actual menace to our colleges and through them to the world at large. We expect to hear much less of it in the year just ahead and the years to follow, and our own institutional relationship to it may lapse through lessened activity.

It is one of those things somewhat difficult to control, and in my judgment less harm is done by careful guidance than by actual opposition. The movement undoubtedly would like to have free swing in the colleges, without faculty restriction or control. This we shall never grant here.

JOS. H. APPLE, President.

**The Views of President Hopkins of Dartmouth College—
Criticises the Alleged "Smug Complacency of
Conservative Adults."**

(Telegram.)

Hanover, N. H., June 25.

Editor Manufacturers Record:

Your letter arrived beginning of commencement season. As I wrote you, reading of pamphlet impossible till after congestion of commencement season taken care of. Have now read pamphlet and find it difficult to believe this serious in its statements. The fact that youth thinks differently from elders is not new in this period. All history shows attitude of youth to be attitude of greater or less degree of revolt. Likewise all history shows attitude of youth to be desire to think problems out, while attitude of elders is to train youth to think in terms agreeable to elders. Accusations of pamphlet will not stand careful examination and implications are ridiculous. No relationship between formal German Youth Movement and attitude of American students. Attractiveness of radicalism to American college youth largely dictated by smug complacency of conservative adults and their hysterical desire to hush information and to hide knowledge of what theories of radicalism really are.

ERNEST M. HOPKINS.

This telegram from President Hopkins was followed by a letter a day later.

Dartmouth College,
Office of Administration.
The President.

Hanover, N. H., June 26.

Editor Manufacturers Record:

I am enclosing a copy of the telegram which I sent to you yesterday in response to your telegram.

Ordinarily I have copies of all correspondence at the office, of course, but your earlier letter and pamphlet arrived during the rush of the commencement season when we had two thousand alumni from all over the country visiting the college and when meetings of all sorts were the rule from morning till night. I therefore simply wrote you an acknowledgement by hand, stating that I would read the pamphlet and make a reply as early as possible. I am wondering whether, due to some exigency or another, this failed to reach you.

I have just returned from a series of post-commencement appointments and have, during this period, gone over the pamphlet in question. Likewise I have submitted it to a number of my most conservative friends who know conditions within the college or conditions in other colleges. Meanwhile, I have been undertaking to find out who the sponsors are for the Massachusetts Public Interests League and have run onto some rather interesting items of information regarding them and their particular slant on life and their credulity in regard to the acceptance of unsubstantiated data.

Incidentally, I may say likewise that an Amherst business man called my attention to a rather humorous feature in the accusation that Mr. Pratt, who, I understand, is an officer of the Standard Oil Company, should be cited as interested in and aiding communistic activities. I repeat this for what it may be worth, since I do not know Mr. Pratt.

I have recently returned from Europe where I have read in the leading Tory papers of England in regard to their confidence in a labor party Premier, and where I have been told in France, by men of the general attitude toward life which I presume you and I alike would take, that on the whole they thought the public welfare would be conserved by the election of a man more liberal than Poincare and where likewise I have heard, despite the American attitude of faith toward Mussolini, leading Italians state that the longer Mussolini and his policy of repression prevailed the more violent would be the reaction and the more radical would be the eventual program.

Meanwhile, we in the United States, with the greatest grounds for assurance of any nation in the world, with our reservoirs of strength practically unimpaired, with opportunity available for youth to a degree unequalled among any people on the earth, allow ourselves to become hysterical and panicky and to create bogeys for ourselves before which we

eringe, as much subject to our imaginations as children afraid of the dark.

I am not very certain in regard to my judgment on many matters, but I am absolutely certain of one thing—namely, that I should lack pride in my patriotism and lack complete confidence in my judgment if I thought that our theories of government were so lacking in merit and our procedures so lacking in substantial strength that we had anything to fear from developing the minds of our youth and giving them fullest knowledge in regard to all other beliefs and theories of society and then asking them to consider these and to compare them with our own conditions.

I was recently talking with some members of the class of '64 who had returned to college to celebrate their sixtieth anniversary of graduation, and likewise talked on the same subject to some members of the fifty-year class. All were in agreement that the same fears in regard to the radicalism of youth were prevalent in their own times and that in the realms of theology, politics and economics the elders were fearful of the thinking of the youth.

It is impossible to live with the undergraduate of the present day and to watch his sincere and intelligent efforts to adjust his thinking to a world in which every condition is radically changed over conditions in former times and not to acquire a confidence both in the sincerity and the intelligence of the college man of today. Mrs. Robinson and Mrs. Balch and the others who, I understand, make up the Massachusetts Public Interests League, are doubtless perfectly sincere in their apprehensions, but in general they have been hectically concerned about other phases of modern life to a degree which makes any particular concern of theirs less convincing than might otherwise be the case.

Very specifically, the line of argument which creates a syllogism, "The German Youth Movement leads to immorality. The College Forum in American colleges is an outgrowth of the German Youth Movement; therefore the College Forum in America is immoral," breaks down at various points. The bogey of German boys and girls going in bathing together as illustrative of the immorality of the German Youth Movement has never been proved, and in my estimation is of the same general quality as the stories which emanated from Russia about the nationalization of women. (I do not understand why people do not learn that the arguments against abhorrent theories and practices of government are always weakened by falsehood and misrepresentation, since these are bound eventually to be found out.) Regardless of what the German Youth Movement is or is not, there is no such thing as an organized American Youth Movement, and the attitude of youth in the different colleges is not influenced to nearly the extent by the so-called German Youth Movement that the attitude of American college students before the war was influenced by the imperialism of the German theory of government or by the variations from a meticulously moral code which thousands of American students found prevalent in the German universities. The two or three individual representatives which were brought over to America to explain the significance of the German Youth Movement were, on the one hand, largely misrepresented in what they said, and, on the other hand, what they did say had little or no effect beyond arousing the curiosity of the American college students.

Finally, I will add simply this observation—that most of the people who are generalizing in regard to what the colleges ought to do miss the obvious fact that undergraduate interest in unknown or obscure things is many times as great as in things which are accessible to them. I have said many times, and would reiterate, that if this were a game instead of an attempt to do something serious in which we were engaged in the colleges, I would guarantee to turn out a group of students predisposed toward radicalism by bringing in only ultra-conservative speakers—or predisposed toward conservatism by bringing in only radical speakers. This is the way the proposition works invariably—that the undergraduate sets himself mentally against overstatement, on the one hand, or against concealment or repression, on the other. Given a free opportunity to search among the various claims for given causes, he has both the time and the lack of personal interest which is likely to be absent at a later time in life, and by the use of these arrives at a judgment as logical and as truthful as could be expected of any man.

Having no personal interest either in substantiating the conservative point of view or in espousing the so-called liberal point of view, but desiring simply that men who go out from Dartmouth shall have some knowledge of how to seek truth and how to recognize reality when they find it, I am largely indifferent to the points of view of any given classes or individuals, and I must say, in complete frankness, that I care

rather less for the attitude of the women who are represented to me as making up the Massachusetts Public Interests League than for most.

ERNEST M. HOPKINS.

We can only suggest as a comment on Dr. Hopkins' letter that we should profoundly regret to see such views become general in American colleges and universities, and on the other side of the case we give the following extract from a letter from Mr. Courtenay De Kalb, an engineer of somewhat world-wide experience, a profound student of history and its teachings, and for some years a prominent educator in this country and in Canada. Mr. De Kalb writes:

* * * "You enclosed to me a pamphlet on the Youth Movement issued by the Massachusetts Public Interests League, which is one of the most terrible things I have seen in many a day. Of course, we all know that the tendency of the young women of the day is to demand complete freedom from sexual restraint, and it would seem that the old signs of the cocotte, the paint and powder, do not tell a false story, but I had not realized that the movement was fully organized as part of the Teutonic-Russian propaganda of world-destruction. I am glad that the authors of this pamphlet have fearlessly named the educational institutions where there are co-operating organizations of the movement. I note that it includes six of the greatest colleges for women.

"The world IS becoming paganized. There is no doubt about that. The literature of the day reveals it, for literature is but a response to the spirit of the age. I have frequently said in my letters to you that there is a great lack in the Protestant Churches due to their neglect of the principle of authority. I regret to see that more and more the Protestant Churches seem to glory in what they announce from the pulpits as 'democratic ideals.'

"Now, the Kingdom of Heaven is not a democracy, nor is the Church of Christ a democratic institution. The Church of Christ is a body of believers living under authority, but the Protestant Churches more and more are emasculating the doctrines by the economic determination of the degree of freedom that the administrators of the Churches may enjoy. I firmly believe that the growth of license is in no small degree the outcome of this departure from the fundamental principle of the Christian religion. Christ most specifically set forth this basis for His Church. He gave authority, and we have dared to take it away. In this age, possessed by the demon of license, the Protestant Churches are caught in the current of so-called democracy and carried along with it, rather than damming the tide and holding the people to the fundamental belief in the necessity of obedience.

"You will recall how St. Paul had to fight that same tendency, especially in the Greek Churches, both of Greece proper and of Grecian Asia Minor. You know how he constantly upbraided them for falling away, and for setting up new doctrines according to the whims of the individuals. Greece was the center of the Old World radicalism. The Greeks were the 'Reds' of that age. They had toyed with democracy; they had insisted on denial of constituted authority; they insisted on the authority of the people, which means the authority of the mob. They had finally been wrecked on these very shoals, and, from necessity, in order to hold the world to useful progress, they had fallen under the domination of Rome, a nation that respected authority, and knew how to govern. It is interesting to note which Churches caused Paul the most concern. He found the idea of liberty or freedom of thought, declining to recognize authority, springing up among those saturated with the radicalism of the Greek mind.

"It is a sad spectacle to observe how commonly the pulpit merely serves as the mouthpiece of the congregation. The Church utters what its adherents want to hear. With all the world surging toward democracy, with even the leader of one of our greatest parties preaching the false doctrine to the day of his death, and leaving a last political will and testament to impose, as it were, a solemn message of democracy from the door of the tomb, with people everywhere remaining untaught in the great Aristotelian principle by our modernized colleges, and so being unable to reason correctly, and unconsciously being swept into the socialistic maelstrom, is it any wonder that the Churches fail to exercise restraint, since they are deprived of spiritual authority, and merely reflect the ideals of those who sit in the pews? The missionary function of the Churches is lost under our present system. We must get back to the old principles, and accept the authority of the accredited ministers of the doctrines of Christ, if we are to overcome these outbreaks of license."

President Lowell of Harvard University Says That the Movement Does Not Exist at Harvard.

Harvard University,
President's Office.

Cambridge, June 24.

Editor Manufacturers Record:

Since receiving your letter of June 12, I have been making inquiries, and cannot find that there is any organization of the National Student Forum, or Youth Movement, at Harvard. Neither the dean nor the regent—whose business it is to know about the student organizations—knows of any such here.

A. LAWRENCE LOWELL.

Dr. Burton of the University of Chicago Thinks Youth Movement in America Has but Little Relation to European Movement.

(Telegram.)

White Plains, N. Y., June 25.

Editor Manufacturers Record:

Delayed answering letter for fuller information not yet received. Strong impression that Youth Movement in America has little relation to European movement. In America the movement is largely religious and idealistic and rather hopeful than otherwise.

ERNEST B. BURTON.

Good for Mount Holyoke!

Mount Holyoke College,
Office of the President.

South Hadley, Mass., June 19.

Editor Manufacturers Record:

The demands of the days immediately following commencement have deferred an answer to your note of June 12 with its enclosure of "The Youth Movement."

I read the enclosure, and can only say that none of the radical tendencies indicated there have been true of Mount Holyoke.

MARY E. WOOLEY.

President Hughes Believes in Full and Open Discussion of Conservative and Radical Views as the Safest Way.

Miami University.

Oxford, Ohio, June 30.

Editor Manufacturers Record:

In reply to your note of June 12, I must say that naturally I am not at all in sympathy with The Youth Movement as portrayed in the bulletin which you enclosed. We have had no evidence of such a movement at Miami University.

Some years ago we had an intercollegiate Socialist society at Miami which thrived for two or three years and then died from lack of interest. Since the war the National Student Forum was organized and had rather an active life for one year.

It has been my experience that if you endeavor to suppress either an ultra-conservative or an ultra-radical discussion on a college campus, it grows tremendously in vitality and interest. If on the other hand either ultra-conservative or ultra-radical ideas are openly discussed, there are generally enough defenders of the other side to handle the matter adequately and keep a safe balance of power.

R. M. HUGHES, President.

Copies of "The Youth Movement" were sent to the presidents of several Southern colleges who had not in any respect been mentioned in connection with the matter, with the request that they give us their views on the subject. From the presidents of the University of North Carolina, Agnes Scott College and Furman University we have the following:

President Chase Thinks That Too Much Opposition Likely to Do More Harm Than Good.

The University of North Carolina.

Chapel Hill, July 3.

Editor Manufacturers Record:

I am very much obliged to you for sending me the pamphlet entitled "The Youth Movement." Absence from the office has prevented an earlier reply to your letter, but I am writing to say that there is no such organization in the University of North Carolina, and I do not happen

to know of any Southern school in which it has gained headway, though it may be that there are such.

My understanding of the movement has been, as indicated in the pamphlet, that it was originated in Germany as a protest of considerable value and sanity, but I have no doubt that it has run wild among various groups in this country. I question, however, whether to feel any serious apprehension over such a matter is not to attach too much dignity and importance to a lot of half-baked ideas and theories on the part of small radical groups in some of our educational institutions. Personally, I have never been able to get up very much excitement over the idea that radicalism is making much headway in American Colleges, any more than I have over Upton Sinclair's charges that they were in the hands of malefactors of great wealth. I believe, however, that there is a certain element of danger attaching to attempts to make this so called radical youth element feel that they are dangerous and that large forces of public opinion ought to be set in motion against them. If there is anything which would increase the spread of such ideas among our young people of today, it seems to me it is just that sort of attitude.

I have often wanted the opportunity to tell you what fine things it seems to me the MANUFACTURERS RECORD is doing for the South, and I hope you will permit me to take this occasion to congratulate you on the splendid work of your publication.

H. W. CHASE, President.

"Believes the So-Called Youth Movement Definitely Harmful."

Agnes Scott College,
Office of President.

Decatur, Ga., June 25.

Editor Manufacturers Record:

Your letter of June 18 enclosing a copy of a pamphlet entitled "The Youth Movement" has been received and read with interest, as has also the pamphlet been read. I have kept up rather well with the movement through its publications. These have been sent to the president of our Student Government Association, who brought them to me with the request that I handle any correspondence which seemed to be necessary in regard to the matter. There has not been any correspondence.

I am sure that our girls are entirely too sensible and well balanced to be swept into a movement of the sort, and I have confidence to believe that this is also true in most of the other colleges of the South. We believe in student initiative and responsibility and we encourage our young women to keep alive to the various activities that go on among their fellow-students, but I believe that the so-called Youth Movement is definitely harmful and I am sure that our student leaders feel just as I do.

J. R. McCAIN, President.

"A Strange, Confusing and Dangerous Movement."

Furman University.

Greenville, S. C., June 27.

Editor Manufacturers Record:

The pamphlet which you sent on June 18 has been read with deep interest, but not with much surprise, since I had learned a great deal concerning this so-called "Youth Movement" already. In Germany it is an exaggerated form of the revolt of youth all over the world. It is a strange, confusing and dangerous movement. So far as I know, there are no organizations of this kind, however, in any of our Southern colleges. At least I have heard of none.

W. J. McGLOTHLIN, President.

We have felt justified in giving so much space to this question in view of its tremendous importance to the people of this country and of the world.

"KEEP ON KEEPIN' ON."

THE Henderson Co. of Shreveport, La., employs a negro who recently wrote the following jingle:

If the day looks kinder gloomy,
And your chances kinder slim;
If the situation's puzzlin'
And the prospects awful grim,
And perplexities keep pressin'
Till all hope is nearly gone,
Jes' bristle up and grit your teeth
And keep on keepin' on.

The Proposed Amendment to Give the Federal Government Complete Control Over the Nation Through Child Legislation.

PERHAPS the most dangerous movement ever proposed as an amendment to our Constitution is that passed by Congress, which, if adopted by the states, would give to the Federal Government the absolute right to dictate as to the employment of all children, white and black, male and female, under 18 years of age. Under that amendment some bureaucratic power in Washington would have the authority to say that no child under 18 years of age should be allowed to work on a farm or to engage in any other work of any kind.

It is the most drastic movement ever undertaken for completely dominating the life of the people of this country. The regulation of child labor is an important matter and should be controlled by the states. But no state should ever presume to say, unless it wanted to drive all intelligent people beyond its confines, that no boy or girl under 18 years of age should be allowed to work without express permission from some bureaucratic authority. But to propose such an amendment for the entire country, and to have Congress pass it, is one of the most astonishing revelations of the trend of thought of the day which seeks to concentrate in the Federal Government absolute domination of individual lives to an extent that could never have been dreamed of as possible a few years ago.

It is folly to say that if this amendment should be adopted it would not be literally enforced, for the spirit of the bureaucrat who had charge of the matter would be to see that no child under 18 years of age was permitted to work without express permission and much red tape. The farmer, white or black, would have no power to employ his children in any kind of work on the farm without express permission from Federal authorities. No boy or girl under 18 years of age would be allowed to clerk or be employed in a factory of any kind, or to work as an apprentice, without the written authority of Washington.

Give this power to the Federal Government and put the enforcement of the law under some visionary crank with more enthusiasm than brains, and we would have a condition rivaling that of Russia where the children are becoming more and more nationalized with the almost complete destruction of parental authority. Under this amendment, if adopted, millions of children from 15 to 18 years of age who should be at work in some gainful occupation, would be denied that privilege. The boy who before 18 years of age has not learned a sense of responsibility and who is not ambitious enough to be doing some form of work for himself or for his family, is likely to be a drone on society for the rest of life. Where parents are abundantly able to send their children to college, and where the children are eager for an education, employment may not be necessary. But there will be millions of boys who will not be benefited by college training one half so much as by training which they would get through profitable employment leading them on to success in business life.

A very large proportion of the foremost men in America, the men are doing the greatest things for the country and for humanity, are men who as boys worked their way from rather early life, starting at it long before they were 18 years of age. To deprive a boy of the right to work until he is 18 without the permission of some official authority would be to rob him of his birthright, to rob him of his initiative and self-reliance and of the desire to be earning a living for himself.

How thoughtful men and women studying this question can by any possibility favor such an amendment is beyond our power to comprehend. Primarily this is not a question of child labor in the ordinary sense. It is an effort of visionary enthusiasts to completely dominate the child life of the coun-

try up to 18 years of age, and to give to the Federal power a complete control over all children up to that age. It is the most grasping effort to dominate national life that was ever suggested in this country. Individual states have for years been passing laws to limit the hours of labor of children in factories—and wisely so. But this amendment goes far beyond that. It would limit the right of all parents, regardless of their business, regardless of their race or color, to permit their children under 18 years of age to engage in any gainful employment. The farmer could no longer have his children help him with farm work. And yet the farmers of the country do not seem to have realized the drastic power which is involved in this proposed amendment.

Unwisely, and we think without any full realization of the meaning of this amendment, the legislature of Arkansas has voted in favor of it. But on the other hand the legislatures of Louisiana and Georgia have wisely refused to do so. Commenting on the action of the Louisiana legislature the Richmond Times-Dispatch says:

"Louisiana is not one of those states which would be affected by drastic child labor laws passed under authority of the proposed twentieth amendment to the Constitution; such laws would restrict the operation only of a few industries in New Orleans. Therefore, Louisiana's Legislature may not be accused of being actuated by selfishness in behalf of the state in rejecting the proposed amendment."

"Despite the endorsement given the amendment by many earnest men and women—Congress is not included, because it was led to approve the amendment and submit it, as it has been led to do many other things, by force of an organized and active minority—the fact is that if this amendment is ratified by two-thirds of the states, the result will be a further surrender to the central government at Washington of rights carefully preserved to the states by the Constitution and interpretations of the Constitution by wise and thoughtful men."

"It is this tendency to yield and continue to yield power to the Federal Government that is the greatest menace with which the country is confronted today. All the Red propaganda, all the socialistic talk and all the radicalism put together do not constitute one-tenth of the harm that threatens the country compared with the danger of extreme centralization of power—toward which we are rapidly drifting."

"An amendment of this character will be legal of course, even though the habit of Congress and decisions of the Supreme Court literally deprive the people of any voice as to its adoption or rejection. But while its ratification will be in conformity with the letter of the Constitution, it will be in direct conflict with its spirit, and it will be another overt departure from the principles upon which the republic was founded."

"Unquestionably, this organized and active minority laid siege to the legislators of Louisiana. Courage was required to combat this minority. For the sake of the nation's future, we have cause to offer up thanks that a sufficient number of Louisiana's legislators possessed the requisite courage. May Virginia and other states numerous enough to reject the amendment have the right to be as proud as Louisiana!"

WHO IS THE SOUTHERN COMMERCIAL CONGRESS?

HAS the so-called Southern Commercial Congress any existence in reality, or has it passed by virtue of bankruptcy entirely out of existence? Is its name merely being used as a camouflage, and has it yet succeeded in paying the rent for lack of payment of which the daily papers reported some months ago it had been evicted from its former offices? In other words, who is the Southern Commercial Congress? Is it merely an evanescent scheme which still floats in the public prints on its name?

"THE SOUTH MUST LIVE IN TERMS OF INDUSTRY INSTEAD OF POLITICS."

IN an address recently delivered before the senior class of the Georgia School of Technology, H. M. Atkinson of Atlanta, chairman of the board of the Georgia Railway & Power Co., broadly discussed the development of Southern industries and pointed out the tremendous opportunities which are presented to trained young men in a world that is growing, and to develop improvements and inventions of benefit to the public.

"In short," said he, "and I am speaking particularly of the electrical industry, the period of opportunity is at its height; the need of trained men for development of our resources was never greater. Invention is still a thing of the future. The application of trained minds every year is bringing into practical use resources that have been idle through the ages."

Next, referring to the then impending meetings of the American Society of Civil Engineers in Atlanta and of the American Society of Electrical Engineers in Birmingham, he said: "Before the week is over our engineers hope to use the new carrier current telephone system by which a delegate to the Atlanta meeting will talk over the 110,000-volt transmission line 250 miles long between Atlanta and Birmingham (while that line is fully charged serving power customers) to the convention in Birmingham. When he has finished, one of the engineers in Birmingham is to talk back to Atlanta, and each convention will hear the talks as plainly as you hear me now."

"This new carrier current telephone system, by which, even in the most severe storms, we will have communication with our power plants and substations when every other method of communication is out of service, will save much money and result in improved public service. Today I can pick up a telephone in my office and talk over the 110,000-volt transmission line to Tallulah Falls, 90 miles away, and all the time I am talking the transmission line will be bringing power into Atlanta while I talk in the opposite direction. We are only on the threshold of electrical development. There is a vast field for any of you who contemplate taking up electricity as a profession. * * *

"You must in selecting a career choose a satisfying work, one in which you will feel that you are rendering a real service. It may be public utility service, or political service, or some other work for the public welfare. Your life work to be satisfying must be of service to the public. * * *

"Although this is not a technical talk, you will be interested in the Southeastern inter-connected transmission and distribution power system which extends from Alabama to Virginia, permitting the interchange of power through the Southeast. The recent completion of this interconnected power system, after years of painstaking work and large investment, is of great value to the public, as it insures uninterrupted efficient service.

"A man nationally known in the electrical industry said recently that this interconnected power transmission system kept 75,000 men at work for several months in the fall of 1922 who without it would have been idle. Those men were kept in employment because we were able, during a power shortage, to transfer power from sections in which there was a surplus to sections where a shortage due to drouth made a shutdown of industry imminent. It will interest you to know that through this interconnected system, stretching from Virginia to Alabama, we have transmitted power from Muscle Shoals, Ala., to the region of Durham, N. C., a distance of over 600 miles. The Georgia Railway & Power Co. made this system possible and is the hub of it. The fact that this system kept so many men at work is a great public service.

"We have many Georgia Tech men with our company.

Some of them have perfected valuable inventions. One invention is an apparatus which enables us to work on 110,000-volt lines while they are 'hot'; another is an invention by which we can detect defects in insulators on 110,000-volt lines from the ground without climbing the towers. These inventions are being used very widely over the country. Another of our engineers has invented a lightning arrester, a disconnecting switch and a circuit breaker, all of which are coming into general use. We encourage research work which will result in inventions. Mention of the company is merely as an illustration of the development of an industry.

"The development of Southern industries is directly dependent on a constructive public attitude. By that is meant that a state of fair public opinion is the controlling factor in development of Southern industries. * * *

"Trained men are more important than natural resources, infinitely more important than natural resources. The development of industry is dependent on the individual.

"You hear men describe the wonderful, unheard-of resources of Georgia. What have we done with all the clay, minerals, products of the soil and all the other natural resources? Why haven't we done more with them? Because there is a lack of trained educated men, and this institution is supplying that need and, without them all the natural resources are perfectly useless. It would be infinitely better to have barren rocks and trained men than all these wonderful resources and not have the trained men. Now, that's one reason why we have in our organization fifty co-operative Tech students in whom we are greatly interested."

In concluding his address Mr. Atkinson referred to a quotation from the MANUFACTURERS RECORD which appeared in the Atlanta Constitution of February 8 last in which it was stated:

"It is a fair assumption, we believe, that, considered from all angles, North Carolina is today the most progressive state in the Union, making greater agricultural, industrial and educational progress than any other state."

The speaker went on to say that the Constitution then pointed out that North Carolina used to be far more backward than Georgia; that was when it was surfeited with petty factional politics. After that came an aroused public conscience and men of affairs sacrificed their time and went to the legislature for the public welfare, and political factionalism was largely supplanted by co-operative progressivism, and North Carolina moved rapidly ahead. That lesson must be learned in Georgia, said the paper, in ending its remarks. And Mr. Atkinson stated that industrial development in Georgia depends on a constructive public atmosphere.

"Georgia," said he, "must live in terms of industry, as distinguished from politics, cheap politics, which has been a curse to Georgia and has been a curse to Atlanta for many years."

And Georgia is not the only state nor is Atlanta the only city which is cursed by the practice of cheap politics, that are chiefly the result of indifference among voters, who should be aroused to action as were the citizens of North Carolina.

SENATOR RANSDELL'S OPPORTUNITY

REPORTS from Louisiana have it that strong drink is served in New Orleans without pretense of concealment, and that while public violation of the Volstead law is not general in other sections, private violation is conspicuous. Senator Joseph Eugene Ransdell's term will expire on March 4, next, yet he still has opportunity to stimulate action by the sectional enforcement agent, without, of course, thought of any effect it possibly might have on his chances for re-election, one way or another.

The Sulphur Industry of the United States.

By RICHARD W. EDMONDS.

"Twenty-five years ago the requirements of the United States for virgin sulphur were met by imports from Sicily and Japan, and for the manufacture of sulphuric acid large tonnages of pyrite were imported from Spain. Today, however, the reverse is true, and we see the United States dominating the sulphur markets of the world, meeting all our domestic requirements with sulphur lower in price than any other country can equal, and exporting approximately 500,000 long tons annually."—*From an address delivered by W. T. Lundy, mining engineer for Freeport Sulphur Co., before the annual meeting of the Texas State Manufacturers' Association at San Antonio, May 23.*

This favorable position in the world's sulphur industry was brought about by the discovery and development of large deposits of sulphur "strategically located near the coast in the states of Louisiana and Texas," Mr. Lundy explained.

The first deposit to yield substantial tonnages is located at Sulphur, Calcasieu parish, Louisiana. Here the common methods of mining by shaft, tunnel and stope proved unsatisfactory because of the poisonous gases encountered, and it was found necessary to devise different methods of mining. In 1891 the first patent covering the basic principles of the method now in use was issued to Hermann Frasch. By this method pipe lines are sunk to the sulphur-bearing strata, the sulphur melted by hot water, and brought to the surface with the aid of compressed air.

Upon the expiration of the patents issued to Frasch and developed by the Union Sulphur Company, the Freeport Sulphur Company entered the field at Bryanmound and at Hoskins Mound, Texas and the Texas Gulf Sulphur Company at Gulf, Matagorda, Texas.

The growth of the sulphur industry in the United States is shown by figures given by Mr. Lundy. In 1900 Italy produced about 544,000 tons, Japan about 15,000 tons and the United States less than 10,000 tons. In 1923 the United States produced about 2,000,000 tons, Italy about 140,000 tons and Japan not over 35,000 tons. The total value of shipments from the mines in the United States in 1923 was approximately \$25,000,000, and stocks on hand at the end of the year were estimated at 2,900,000 tons.

While sulphur is widely distributed throughout the world, the mining operations, with the exceptions of those in Texas and Louisiana and in Sicily, are on a small scale, and the product is usually for local consumption only. The figures quoted above show that at present the world's most important source of sulphur is the region of the cap-rock formations of Texas and Louisiana. There are here about fifty of these domes, most of which contain sulphur in varying amounts, but latest available information indicates that only five of the fifty domes contain sulphur in commercial quantities.

"Production of sulphur by the Frasch process is made possible by the fact that the sulphur-bearing formations are so porous that hot water readily percolates through the voids. The enormous quantity of hot water required, the resulting large and expensive heating plants necessary to accomplish this, and the fact that the economical production of sulphur from the cap-rock type of deposits is based on the mining and marketing of substantial tonnages are factors, all of which involve large capital expenditures, not only before profits are realized, but also before profits are in any sense assured."

The story of the development of the deposit at Hoskins Mound, says Mr. Lundy, is typical of the development of the

other deposits. Between 1900 and 1905 oil prospecting revealed the deposit at Hoskins Mound, but its extent was not known, and no attempt was made to survey it. During the next 15 years additional drilling indicated the presence of a commercial deposit, and in 1920 the owners started a drilling campaign that lasted through a year, and revealed the presence of ore bodies sufficient in size and extent to justify immediate development. Arrangements were made with the Texas Company and the Freeport Sulphur Company for production and marketing, and initial production was secured early in the spring of 1923, about 23 years after the discovery of the deposit.

"Before work could begin on plant construction it was necessary to build about fifteen miles of railroad over a country so low and flat that it is largely submerged during rainy seasons and storms. In addition to the railroad a ten-mile shelled road was constructed to connect with existing highways and seventeen miles of telephone lines and five miles of water canals constituted other prerequisites to the main equipment on the property."

Since the Frasch process depends on the injection of large volumes of hot water into the sulphur formations, efficient power plants are probably the most important and most costly part of all equipment required. The power plant at Hoskins Mound develops 8400 horsepower. Other important items in the plant are air compressors, turbo-generators and mine-water heaters in sufficient numbers to distribute the water to as many wells as necessary under the varying pressures required by the individual wells.

"Although there are approximately fifty reciprocating pumps, five air compressors and two turbo-generators, yet no exhaust steam is in evidence from this 8400-horsepower plant for the reason that all the exhaust steam is used to heat the mine water in pre-heaters."

Some idea of the magnitude of the operations carried on at Hoskins Mound may be had from figures given by Mr. Lundy. Approximately 4,000,000 gallons of water are required every 24 hours; and in order to insure a uniform and ample supply at all times, reservoirs having a capacity of about 300,000,000 gallons were constructed. In order to render the water fit for use in the elaborate system of boilers, heaters, pumps and pipe-lines through which it must pass, the water is treated to remove both temporary and permanent hardness. The main supply of water comes from Austin Bayou by way of five miles of canals. This is supplemented by water drawn from sand beds at a depth of from 300 to 600 feet. Since this well water carries soda ash in solution, it is used for removing the permanent hardness from the bayou water. For the removal of temporary hardness approximately 6000 pounds of lime is used every day.

Of commodities consumed in sulphur production fuel for heating water is the largest single item. The quantities of fuel used at Hoskins Mound are so great that facilities are necessary for unloading simultaneously seven tank cars of fuel oil. In addition, storage facilities for storage for a two-month supply are provided to prevent delays that might otherwise result from the severe storms that sometimes sweep over the Gulf coast. The next largest item is probably pipe, of which it is necessary to keep on hand large stocks of a great variety of sizes not to speak of all the assortment of hardware, lumber and miscellaneous supplies used in the operations of steamships, railroads, oil refineries, etc.

In the mining process the melted sulphur is forced up through the pipe to the surface, discharged in relay stations and pumped to bins, where it is allowed to collect and solidify in large piles. These piles are then mined a second time, this time by drilling and blasting in order to break

up the sulphur to a size suitable for loading. The close proximity of the sulphur deposits of Texas and Louisiana to ocean ports has been a prime factor in the rapid rise of the industry in this country.

"The present large stocks indicate a serious overproduction of sulphur, particularly in the year 1923," says Mr. Lundy. In order to increase the world's consumption, the American producers have adopted active campaigns which promise new and considerable outlets for sulphur. In 1922 three of the largest producers of sulphur in the United States organized the Sulphur Export Corporation for the purpose of regulating and promoting the export of sulphur and sulphur products. The Sulphur Export Corporation has not endeavored to drive the Sicilian producers from foreign markets, but has reached an agreement with them by which the Sicilian companies can profitably market their product.

In order to find new uses for sulphur, the Texas Gulf Sulphur Company has established a research department. Says Mr. Lundy: "The largest undeveloped possibilities for increasing the market for sulphur appear to lie in expansion of its uses for agricultural purposes. Appreciating this, the Freeport Sulphur Company has for a number of years cooperated with the Crop Production Institute, with headquarters in New York. This same company has also donated sulphur for experimental purposes to every agricultural experiment station in Texas, and, commencing with January, 1924, bears the cost of an additional employee in the office of the state chemist. This is in agreement with the experiment station officials to the effect that state soil surveys would include determinations of sulphur content. Briefly stated, the object of this research work is to find whether the soils in Texas are deficient in sulphur and would be benefited by its use. The state also agreed to carry on experimental work to determine what crops are benefited by the presence of sulphur and the best method of application. Under this agreement the state will also experiment to determine how sulphur can be used to the best advantage in combating plant diseases and insect pests.

"Sulphur enters, at some stage of manufacturing, into the making of a surprisingly large proportion of everything we use, and a complete list of its various uses would be almost impossible to compile. The industries in the order of their importance in the consumption of sulphur are as follows:

1. Acid phosphate (sulphuric acid used).
2. Paper and pulp.
3. Chemicals (other than sulphuric acid).
4. Sulphuric acid (other than for industries enumerated in this list).
5. Agriculture (other than acid phosphate).
6. Rubber.
7. Galvanizing.
8. Explosives.

"The first item of the above list, both from the standpoint of tonnage consumed and of its importance to farmers and to the nation, is that of fertilizers. Phosphates form a large part of the mixed fertilizers used in this country, and practically all of this fertilizing material is prepared by treating ground phosphate rock, known as 'floats,' with sulphuric acid for the purpose of making the phosphates soluble and so rendering them available as plant food.

"Sulphuric acid used in industries other than fertilizing accounts for a considerable proportion of the sulphur production of the United States, and it may be made commercially from either sulphides of iron and other metals or from elemental sulphur. In the case of the former it is necessary to roast the sulphide ore by the application of external heat, but in the case of the latter the sulphur is merely burned and supplies its own source of heat. The purity of sulphur, its low price, its convenience and cheapness in handling and the fact that it contains no waste material makes its use in the manufacture of sulphuric acid greatly preferable to that of sulphides of metals.

"In addition to the manufacture of fertilizer, sulphuric acid is a necessary and important commodity in many other indus-

trial arts, such as pickling for the preparation of material for galvanizing, for tinning and for enameling. It also enters largely into the refining of gasoline and kerosene.

"About 1840 it was discovered independently and contemporaneously by Hancock in England, Ludersdorf in Germany and Charles Goodyear, a Connecticut Yankee, that sulphur would harden rubber and convert it from a soft gum to a tough elastic solid. The rubber industry is built around this discovery, which is commonly called vulcanizing, and accounts for a large consumption of sulphur.

"Farmers, fruit and vegetable growers use sulphur in a finely ground state as a dust on trees and plants in their continual warfare on diseases and insect pests. San Jose scale might have wiped out our apple orchards if it were not for the effective check offered by sulphur, applied in combination with lime, and known as lime-sulphur spray. The deadly enemy of the potato grower, the potato scab, had in many localities so infested the potato field that every bushel of the crop was unmarketable. The application of sulphur to the soil rendered it so unfavorable to the growth and propagation of the scab spores that a commercially profitable crop was the immediate result. Many other plant diseases have yielded to treatment with sulphur and its compounds, amongst which may be mentioned the rust mites, white flies, scales and thrip in the citrus industry.

"Not only does sulphur play a most important role in the fight of the farmer against fungus diseases and small insects, but it is also most useful in many sections and on certain soils as a fertilizer. The presence of sulphur also assists in rendering available some of the other essential elements in the soil, and thus plays a double role; that is, as a fertilizing agent itself, and also as an accelerator for other plant foods. The most notable cases where the application of sulphur to soils has resulted in decided increases in crops are in relation to alfalfa, sweet potatoes, cotton and tomatoes.

"The development of sulphur as a fertilizer has been of comparatively recent growth and the subject has not had the long years of study and experiment which have characterized fertilizers such as potash, phosphorus and nitrogen. This is probably due to the recent and rapid rise of this industry in the United States. Another important application of sulphur in the agricultural industry is its value in reclaiming alkali soils. Finely pulverized sulphur, when added to a soil, results in an acid reaction, and the acidity tends to neutralize the alkali present.

"There is one other matter in connection with alkali and sulphur that is of interest. It is well known that alkali waters, or the drainage waters from alkali lands, have a disintegrating effect on concrete. So sure and so deadly is this attack that concrete work of any sort cannot be used in these waters or be exposed to them without failure resulting in a comparatively short time. Due to the fact that sulphur is chemically inert, it withstands the attack of acids and alkali, and by impregnating concrete with melted sulphur a product results which is not only proof against attack by alkali and acids, but which is also decidedly stronger and less porous than concrete before the addition of the sulphur. This same principle may be applied to certain materials, such as limestone and sandstone and thus, increasing their strength and reducing their porosity, makes them available and valuable for building material. Sulphur may be mixed in a molten state with sand, slag, graphite and other granular materials to produce compounds which are hard, strong and proof against both acids and alkali. Commodities in which this type of material might be particularly applicable are storage battery jars, chemical containers, troughs and tanks.

"The many uses for sulphur in the industries require that in the national interest the sulphur industry be maintained under the present conditions of low price and large quantity production in order to compete with the foreign product,

which, because of the cheap labor and the shallowness of the mines, can be produced very cheaply.

"The essential factors," says Mr. Lundy, "which govern the prosperity of the sulphur industry in the United States are: That new uses be found," thus increasing consumption; "that the important items of fuel oil cost and supplies be maintained under the present favorable conditions, and also that methods and principles of taxation, both state and Federal, be made equitable, and so applied to the sulphur industry that economical methods of production will in no way be adversely influenced or limited."

204 Flax Hill Road,
South Norwalk, Conn.

Union Scale of Wages and Hours of Labor May 15, 1923, as Reported by the Department of Labor.

Bulletin No. 354 though a year old as to its figures has just been issued relating to the union scale of wages and hours of labor of nearly 900,000 union members in the United States as of May 15, 1923, and showing comparison with preceding years, by the United States Department of Labor through the Bureau of Labor Statistics. The bulletin embraces returns from 66 leading industrial cities and 12 groups of industries covering 89 trades or occupations.

In the average for all trades taken collectively the hourly wage rate on May 15, 1923, was higher in the United States than in any preceding year being 9 per cent higher than on May 15, 1922; 84 per cent higher than in 1917, 111 per cent higher than in 1913, 123 per cent higher than in 1910, and 135 per cent higher than in 1907.

In 1923 the regular hours of labor were at the same level as in 1922, 4 per cent lower than in 1917, 6 per cent lower than in 1913, 7 per cent lower than in 1910, and 8 per cent lower than in 1907.

Sixty-eight per cent of all the union members covered had a regular working week of 44 hours or less and 18 per cent had a 48-hour week; 94 per cent of the bakers had a 48-hour week or less; 97 per cent of the building trades' members had a week of 44 hours or less, as had also practically all of the granite and stone workers. Among the laundry workers 95 per cent had a 48-hour week. Of the metal-trade members 56 per cent had a 48-hour week and 35 per cent had a week of 44 hours or less. In the book and job printing trades 89 per cent had a working week of 44 hours or less, and 10 per cent had a 48-hour week. In the newspaper trade 53 per cent were on a 48-hour week. Twenty-nine per cent had a working week of 44 hours or less.

The average rates of wages per hour as of May 15, 1923, for the country as a whole for a few typical occupation were: Bakers, 92.1 cents; bricklayers \$1.321; building laborers, 72.8 cents; carpenters, \$1.084; plasterers, \$1.306; plumbers, \$1.151; longshoremen, 72.2 cents; blacksmiths, 99.7 cents; machinists, 82.3 cents; newspaper compositors on day work, \$1.013; and typesetting machine operators on day work, \$1.031.

The average rate per hour for all building trades covered was \$1.068, for the metal trades 83.9 cents, and for the newspaper printing trades \$1.047. For all trades covered in the several industries the average rate per hour was 95.2 cents. As compared with May 15, 1913, the rate of wages per hour on May 15, 1923, showed an increase of 176 per cent for bakers, 91 per cent for bricklayers, 118 per cent for building laborers, 104 per cent for carpenters, 93 per cent for plasterers, 86 per cent for plumbers, 109 per cent for longshoremen, 103 per cent for blacksmiths, 101 per cent for machinists, 78 per cent for newspaper compositors on day work, and 83 per cent for typesetting machine operators on day work.

A Wise Move by the Seaboard Air Line Railway Company in an Industrial Survey by Experts.

Savannah, Ga., June 30.

Editor Manufacturers Record:

Under separate cover I am sending you bound copy of the industrial survey of the upper portion of the Seaboard Air Line Railway system, recently conducted under the direction of Lockwood, Greene & Co., engineers.

Realizing that the growth of the Seaboard Air Line is dependent on the growth of communities along its lines, and desiring to see a logical well-planned industrial expansion, Lockwood, Greene & Co. were retained to make this investigation for us. A number of cities, desiring a more comprehensive report than would have been possible for us to secure for them, engaged in this work with us, contributing financially. They received in return a very complete report of their industrial opportunities. These communities are:

Athens, Ga.	Camden, S. C.
Elberton, Ga.	Sumter, S. C.
Cartersville, Ga.	Georgetown, S. C.
Winder, Ga.	Henderson, N. C.
Darlington, S. C.	Sanford, N. C.
Greenwood, S. C.	Hamlet, N. C.
Chester, S. C.	Raleigh, N. C.
Cheraw, S. C.	Weldon, N. C.
Abbeville, S. C.	

The tremendous increase in industry in the Southern states during the past few years has created on the part of every community a desire to expand industrially. In their eagerness much misinformation has been given out, and I find Northern manufacturers much loath to consider information furnished them by communities because of unfortunate experiences in the past when after making an investigation they found they had been misled. There can be no doubt about information that has been gathered and presented in such a comprehensive way by a reputable firm of engineers, and we felt that half of our battle would be won in gaining the attention of manufacturers by presenting information such as has been gathered for us in this survey. Each of the communities that engaged in this work and the industrial department of this road based on this report is launching a well-planned campaign with the ultimate object of bringing about well-grounded industrial development.

We believe that in this work we have blazed a new trail in the way of co-operation between the railroad and the communities it serves. We believe we have been instrumental in writing a new chapter in the history of railroad development.

One of the features of this campaign, in following up the survey, will be advertising in the MANUFACTURERS RECORD the opportunities offered by these various communities. Realizing that because of the very valuable work your publication is doing for the South, and that you receive many inquiries regarding Southern opportunities, we wish you to have on file in your office a copy of this report so you may aid us in giving intelligent and accurate information.

Each community, of course, has received a separate report, more detailed than the bound report which I am sending you, but the condensed analytical information given herein is for the purpose of answering any question that a prospective manufacturer might ask regarding Southern communities.

We regret that we were only able to carry on this work on the upper half of our system. As soon as we can properly do so, this report will be extended until it covers our entire property.

Assuring you of our appreciation of the battle you are carrying on for Southern development and of our desire to co-operate with you, and in turn enlist your co-operation, I beg to remain,

CHAS. A. MCKEAND, General Industrial Agent.

Cotton Acreage Estimate of United States Department of Agriculture.

The Crop Reporting Board of the Agricultural Department estimates, from the reports and data furnished by crop correspondents, field statisticians and co-operating state boards (or departments) of agriculture and extension departments, that the area of cotton in cultivation this year in the United States is about 40,403,000 acres, as compared with 38,701,000 acres, the revised estimate of acreage in cultivation a year ago, being an increase of 1,702,000 acres, or 4.4 per cent. This acreage is considerably higher than the estimate of the American Cotton Association.

The condition of the growing crop on June 25 was 71.2 per cent of normal, as compared with 65.6 on May 25, 1924; 69.9 on June 25, 1923, and 74.8 the average condition for the past ten years on June 25, according to the Government report, which says:

"From past experience the June 25 condition of 71.2 per cent indicates a yield per acre of about 143.8 pounds and a total production of about 12,144,000 bales of 500 pounds gross. But the final outturn of the crop may be larger or smaller, as developments during the remainder of the season prove more or less favorable to the crop than usual. Last year the production was 10,128,478 bales, two years ago 9,761,817, three years ago 7,953,641, and four years ago 13,439,603 bales. The average production for the five years 1910 to 1914 was 14,259,231 bales, and for 1915 to 1919 the average was 11,481,984 bales:

"Details by states follow:

State.	Per cent compared with 1923.	AREA.		CONDITION.		
		Acres.	June 25, 1924.	June 25, 1924.	1923.	Ten-year average.
Virginia	125	92,000	61	90	82	
North Carolina	108	1,822,000	73	80	78	
South Carolina	109	2,185,000	69	64	73	
Georgia	98	3,767,000	75	56	70	
Florida	65	-111,000	79	65	74	
Alabama	100	3,190,000	70	68	72	
Mississippi	96	3,256,000	74	67	75	
Louisiana	105	1,537,000	78	69	75	
Texas	108	15,595,000	70	77	75	
Arkansas	98	3,058,000	68	66	77	
Tennessee	97	1,184,000	67	67	77	
Missouri	115	453,000	60	62	79	
Oklahoma	108	3,672,000	72	64	76	
California a	113	266,000	90	91	92	
Arizona	138	179,000	92	92	b 89	
New Mexico	200	140,000	80	80	c 86	
All other	257	36,000	72	
U. S. total a...	104.4	40,403,000	71.2	69.9	74.8	

a About 140,000 acres in Lower California (Old Mexico) included in California figures, but excluded from United States total. b Seven-year average. c Five-year average.

The acreage in other states is made up of 16,000 in Illinois, 18,000 in Kentucky and 2500 in Kansas. The acreage last year in these states is revised to 14,000 instead of 22,000 acres as shown in the May 25 report.

The acreage in Arizona of Pima Egyptian long staple is estimated at 8000 acres compared with 40,000 in 1923.

"Marked improvement of the cotton crop is reported during June. The condition is found to be 71.2 per cent of normal, or 5.7 per cent above the condition of 65.5 per cent on May 25. The 10-year average June improvement has been 2 per cent, consequently the improvement during June of this year was nearly three times as much as average. Compared with June 25 of last year, also, the condition of the crop on the same date this year is higher by 1.3 per cent. Notwithstanding the June improvement, the 71.2 per cent condition of June 25 is 3.6 below the 10-year average of 74.8 on June 25.

"The outlook for the cotton crop is more hopeful than it was at this time last year. The season is still late, but comparatively not everywhere as late as it was a month ago.

There has been some 'catching up.' The crop is growing well, it has good color, and is well cultivated, except where there has been excessive rain. The stand is about average, but somewhat ragged on account of replanting.

"Boll weevils are much less numerous than they were last year, except in Southern and Central Texas. If there is dry, hot weather in the Eastern and Gulf states during the next few weeks, it will probably mean a material improvement in the prospects of the crop. On the other hand, the crop being late, if weather conditions are favorable for the development of the weevil, very serious damage may occur, as the weevil will probably become prevalent before the crop has advanced sufficiently to be safe from danger. Much more calcium arsenate than in any previous year is being used to combat the weevil. The fertilizer used is of higher grade and greater in amount than last year.

"Fields in Texas are very spotted and in many instances it was found cheaper to replant than to work out the grass and weeds. This added to the lateness of an already late season. The crop in that state is being made at great expense, owing mostly to replanting, high wages and high feed prices. Hot winds, lice, worms, 'fleas' and grasshoppers, following a cold, wet spring, have retarded the development of the crop. Where it has been possible to work the crop out in time it looks well, but most of it is still small, and chopping is not completed. Weevils are reported to be less numerous than they were last year, at this time, except in the southern and central regions of the state.

"Georgia's cotton crop is in better condition and the prospects are brighter than in several previous years. Few weevils are found in northern Georgia. In southern Georgia they are less than they were last year, but may be present in sufficient number to cause much damage under later conditions favorable to them. About twice as much poison is being used this year as last, and it is being applied more thoroughly.

"The month has been favorable to cotton in Oklahoma, with the exception of hot winds for a few days, which retarded growth somewhat, but did not seem to injure the plant. The crop is two to three weeks late. The plant is healthy and tap roots are long enough to insure safety during a moderate period of hot, dry weather. Grasshoppers are doing considerable damage and some fields have been completely destroyed. If they do not disappear within a short time material damage to the crop may be expected.

"In North Carolina, the cotton plants have grown slowly during the month preceding June 25, and on account of rain many fields in the northeast have not been kept clean. However, the major portion of the heavy cotton-producing counties have a favorable outlook. Weevils have so far been few.

"Although some of the cotton fields in Tennessee are very grassy and foul, and some others may be abandoned on this account, the great bulk of the crop is now cleaned out, looks healthy, is in a good state of cultivation, and is growing rapidly. There was decided improvement during the two weeks before June 25.

"In Alabama, the crop is doing very well in all sections. In spite of poor stands in Mississippi, the crop is in much better condition than it was a year ago. Improvement in Louisiana during the month has been sufficient to make the crop look well almost everywhere. The crop has improved remarkably during the month in Arkansas, owing to the favorable dry weather."

Keen Interest in Southern Exposition Develops in the Cities of Each State.

Brisk awakening in all sections of the South to the tremendous advertising and other advantages promised in the Southern Exposition is shown in reports from many cities in many States of preparations to contribute their full share in exhibits to the aggregates of their respective Commonwealths. The Exposition will open in the Grand Central Palace, New York, on January 19 next, and will continue to the end of that month.

For instance, in Mobile, the Mobile Register announces:

"The thousands of persons from all parts of the country who will visit the Southern Exposition at the Grand Central Palace in New York city next January, 19th to 31st, will see the most interesting exhibit of all those gathered from below the Potomac and Ohio Rivers in the display of Baldwin and Mobile counties.

"There will be something different about the Mobile display. There will be no promises held forth for Mobile as a world center for this or that, but the infinite variety of products will make the whole exhibit outstanding from those of other sections of Alabama and its sister states. The exhibit is being planned with the manufacturing department of the Mobile Chamber of Commerce in charge, and everything will be shown from citrus to canned fish and cigar-box wood to cucumbers. The variety is even a surprise to Mobilians."

To which the Mobile Mobilizer, the monthly paper of the Mobile Chamber of Commerce, adds:

"Alabama's allotment of space at the Southern Exposition will be fully taken and every part of the state will be well represented in the exhibits. At a meeting recently held in Montgomery it was decided by Jesse B. Hearin, secretary for Alabama, and representatives of numerous chambers of commerce that there shall be two state-wide exhibits: The agricultural, centered around Auburn, and the geological exhibit, centered around the University of Alabama.

"Perhaps the biggest practical truth we will have to get across is the wonderful success of the colonies of Baldwin as an inducement for the better types of the foreign-born population now in this country to scatter out and become a part of the land of their adoption by getting closer to its soil."

Plans to make Greenville's (S. C.) exhibit "worthy of a textile center and demonstrative of the productiveness of the section," as the Greenville News expresses it, were formulated and discussed at a recent meeting of local manufacturers and other business men. Says the News:

"According to present plans, the Greenville exhibit will be one of the most interesting on display in the Grand Central Palace, and not only will be unique in arrangement, but also will be representative of the city's varied industries. It will show the world at large, it is planned, the extent of Greenville's capacity as a center of production through its many large manufactures and its extensive resources. Several local cotton mills already have made reservations for space."

One of the most interesting and significant features in recent announcements of preparations is the fact that the management of the Virginia exhibit has received applications for space from the Virginia Polytechnic Institute and the University of Virginia. These two great educational institutions are expected to provide appropriate exhibits which will be of tremendous interest and value to visitors to the Exposition, and will be of high credit to themselves and the entire South.

In a dispatch to the Bristol (Va.) News, comprehensive plans for Lynchburg are announced as follows:

"Lynchburg will attempt to win the laurels as the Virginia city with the greatest display of manufactured products in the Virginia section of the Southern Exposition. D. B. Ryland, business manager of the Chamber of Commerce here, will ask for 1000 feet of floor space, one-tenth of the space taken by the Commonwealth for an official exhibit of its entire wealth.

"Besides the city exhibit, which would feature the magnificent opportunities which are offered by the city to new industries," adds the dispatch, "Mr. Ryland already has signed up 225 feet of floor space for various industries."

Lynchburg, it appears, has a fund for advertising purposes, and it seems to be the feeling there that "it could be used to no better purpose than in placing a representative exhibit in the Grand Central Palace which would make Lynchburg lead the other cities of the state."

In another dispatch Petersburg proclaims that it may "play a prominent part in the Virginia section of the Southern Exposition," President W. M. Eller of the Chamber of Commerce having been in conference with several Confederate societies, which are reported as greatly interested.

"Mr. Eller is enthusiastic over the work which the local committee is doing to interest local manufacturers in the Exposition," continues this message. "Already the Independent Trunk & Bag Company, the Southern Chemical Company and the International Filler Company have announced that they will have exhibits, and other manufacturers are expected to make similar decisions."

The Petersburg business men also have interested Smithfield in the project.

"The Visco Corporation has agreed to place an exhibit in the Southern Exposition," says a despatch from Roanoke, Va., this making the sixth big firm in that city to enter the Virginia space.

Missionary efforts to impress on Kentucky a realization of the magnitude and possibilities of the Exposition are understood to have borne fruit and a fine showing is expected from that state.

In arranging for their exhibits the states are reported to have an eager eye on the prize of \$5000 in advertising space in the MANUFACTURERS RECORD, offered by this paper for the state making the best showing at the Exposition.

President W. G. Sirrine of the Exposition management has arranged to visit New York this month with Col. Holmes B. Springs, secretary, to begin arrangements for the social side of the Exposition. The Southern emissaries will visit the presidents of the various Southern state societies in New York and each will be asked to arrange a luncheon for the day set apart for his state. There are twelve such state societies, and a joint function also is planned.

Appreciation of the prize offer by the MANUFACTURERS RECORD was expressed in a letter, dated June, 30, to the editor from John W. Lewis, Jr., secretary of the Opelousas (La.) Chamber of Commerce, in which he says:

"We are in receipt of your letter of June 3, explaining the MANUFACTURERS RECORD's offer of a hitherto unequalled opportunity for every state in the South to take part in a grand Southern Exposition, to be held in New York next January. We feel that Louisiana should enter into this Exposition and that it would have an excellent opportunity to win the prize."

Decision of the Atlanta (Ga.) Chamber of Commerce to

present an Atlanta exhibit is announced in the Atlanta Constitution, which describes this determination as "the latest results of efforts to obtain for Georgia the prize of \$5000 worth of advertising offered by the MANUFACTURERS RECORD for the best state showing."

"Aside from the prize, however," says the Constitution, "it is the opinion of Secretary B. S. Barker of the Chamber that the publicity resulting from participation in the big two-weeks show will reward amply all exhibitors."

Savannah, Macon and Columbus also will have individual exhibits, and the Georgia Industrial Association is supervising the state exhibit.

In editorial discussion of the Exposition, the Birmingham (Ala.) Age-Herald says, in part:

"There is every reason why Alabama should be properly represented at this Exposition by a complete exhibit of its resources and possibilities," and adds that "a prize of \$5000 has been offered by the MANUFACTURERS RECORD for the best exhibit at the Exposition by a Southern state," and that "Alabama could and should not only capture this prize, but should receive the much greater rewards which will come from proper representation."

Spartanburg at the Southern Exposition.

[From the Spartanburg (S. C.) Journal and Carolina Spartan.]

It appears that the Journal was mistaken in saying that the Southern Exposition to be given in New York city next January was "merely intended to illustrate the part that cotton played in the industrial and commercial life of the country and the world. Richard H. Edmonds of the Baltimore MANUFACTURERS RECORD, who has done more to preach the South and the riches thereof than any other man who has had the gift of speech and opportunity of service, writes:

"That I think is entirely contrary to the intention of those who organized the Southern Exposition. Really, the Exposition is designed for the purpose of showing how vast are the resources of the South outside of cotton."

So much the better, Mr. Edmonds, and we are "de-lighted" that our "understanding" of the main purpose of the Exposition was not well founded because it moved the soul of our dear old friend to write this letter to the Journal:

Baltimore, June 17, 1924.

To the Editor of the Journal:

I find in your issue of June 14 an editorial bearing on the Southern Exposition in New York which contains the following statement:

"The Exposition in New York, as we understand it, is merely intended to illustrate the part that cotton has played in the industrial and commercial life of the country and the world."

That I think, and I am sure Mr. Sirrine will confirm this, is entirely contrary to the intention of those who organized the Southern Exposition. Really, this Exposition is designed for the purpose of showing how vast are the resources of the South entirely outside of cotton. The world knows a great deal about cotton, but it knows comparatively little about the vast mineral resources of the South, though here and there some experts are familiar with the fact that the South from the mineral point of view is the most richly endowed region in the world.

It is hoped, as I understand the matter, to make this Exposition a real exhibit of the South's resources, also of diversified agriculture, for the world at large knows comparatively little about the great development of diversified farming now under way, and still less about the great potentialities for the development of every line of diversified agriculture. It is to be hoped that at the Exposition every state in the South will make the most comprehensive exhibits of its mineral and agricultural resources, and of the industrial achievements already accomplished. In other words, it is hoped that the Southern Exposition will visualize to the hundreds of thousands of people who will visit it what might be called a cross-section of the South, showing by states the varied resources of every line of industrial activity—its clays, its marbles, its granites, its ores of every variety; its grains, its grasses, its fruits, as well as its cotton.

But I take it that cotton should be the least conspicuous

feature in the Exposition. It may be very appropriate that there should be a full exhibit of the varied lines of cotton goods produced in the South, and I trust that the cotton mills of this section will avail themselves of the opportunity of showing how cotton manufacturing has developed to the point where the South is producing a wide variety of high-grade goods. Indeed, it would, it seems to me, be of almost infinite value to the South and to the whole industry if some leading cotton-mill company in the South, or a number of them combined, would make an exhibit of a model cotton mill village, with moving pictures showing the character of homes which they occupy, the splendid buildings which have been erected by cotton mill companies for the Y. M. C. A. and the Y. W. C. A., and for schools.

A large proportion of the visitors to this Exposition would hardly be interested specifically in cotton itself, but they would be tremendously interested in the moving, living panorama showing what kind of people compose the splendid operatives in the South's cotton mills in contrast with the distorted views that so many Northern people have of these folks.

They would likewise be interested in seeing pictures of some of the mill villages with their attractive homes built for cotton-mill operatives, and I am rather inclined to think that movie pictures of many of the sturdy native Anglo-Saxon men and the high type of young women employed in these mills, would prove a revelation to thousands of people in the North who will visit the Exposition.

At the moment I have before me a letter from Virginia, which is taking a very active part in preparing to make a great state exhibit, containing a suggestion that has been made by Alfred H. Jennings of Lynchburg, and adopted by the Virginia Sons of Confederate Veterans, to start a South-wide campaign to put the South in its rightful place in the history of the nation. In olden days the people of the old South made history as few other people of modern times ever made it, but they left the writing of history to other people, and the South has thus never received credit for the work which it did in the building of the nation.

How many South Carolinians, for instance, of the present day realize the extent and variety of the iron industry of the Greenville and Blacksburg sections long prior to the Civil War?

How many of them know that even in Revolutionary days some of these iron works turned out cannon for the Colonies in their fight against Great Britain?

How many know that in those early days, as stated by Swank in his "History of Iron in All Ages," that the pioneers of Virginia and the Carolinas and Tennessee and Alabama, were, as he said, apparently born with genius for iron-making?

These are some of the things which should be brought out with great clearness by the Southern Exposition.

I well remember that the late D. A. Tompkins in discussing these things with me many years ago pointed out the fact that, in his opinion, the industrial trend of men in his own employ in his great machine shop at Charlotte owed their abilities to an inherited trait of character from the old pioneer iron-makers of ante-bellum days.

There is scarcely a state in the Union from Virginia to Texas which could not by putting forth a fair degree of energy make such a display of the things achieved by its people in the first half of the Nineteenth Century, and the achievements of later generations up to the present time, that would not be a revelation of inestimable value to the whole country.

Very truly yours,

RICHARD H. EDMONDS.

Tens of thousands of people will attend the Southern Exposition in New York—men of large means looking for safe places to invest their savings; men seeking desirable states and communities in which to establish homes—law-abiding communities with educational advantages of high order, where the soil yields abundant crops, where the transportation facilities are of the first order, and it is in all these respects that Spartanburg should challenge the competition of all other counties and communities in the South. Mr. Edmonds is entirely right—the South has everything besides cotton and its products that is worth having—history, tradition, services, education, religion—and Spartanburg will miss a great opportunity if she does not "put her best foot foremost" at the Southern Exposition in New York.

Thank you, Mr. Edmonds.

\$1,000,000 Plaster and Wallboard Plant Placed in Operation at Sweetwater, Texas.

UNITED STATES GYPSUM COMPANY COMPLETES MODERN STEEL AND CONCRETE FACTORY WITH DAILY PLASTER CAPACITY OF 400 TONS.

By H. A. SIMONS, Chicago.

The opening of the new million-dollar production unit of the United States Gypsum Company at Sweetwater, Texas, is an attempt to meet the special requirements of Southern builders for fire-resistive materials to supplant the old wood-lumber construction. It is the only factory in the South producing wallboard as well as all other gypsum commodities.

Until recently the company has supplied the requirements of this region from its older plants at Blue Rapids, Kan.; Eldorado and Southard, Okla., and Plasterco, Va. At present it is adding to its establishment at Plasterco a sheetrock wallboard mill, which will be completed July 15, and that will take thousands of dollars annually off the freight bills of builders in the Southeastern states. The new plant at Sweetwater will do the same thing for the building industry in the Southwest and middle Gulf Coast.

Prospecting in the Texas gypsum fields was begun by this company several years ago. Three miles east of Sweetwater was found a tract which ideally filled the requirements for large-scale, low-cost, industrial exploitation. The property is crossed by the Santa Fe and the Texas & Pacific Railroads; besides, the Kansas City, Mexico & Orient line runs through Sweetwater. Sweetwater Creek also runs through the tract some 20 feet below the surface level of the surrounding plain, providing ideal drainage.

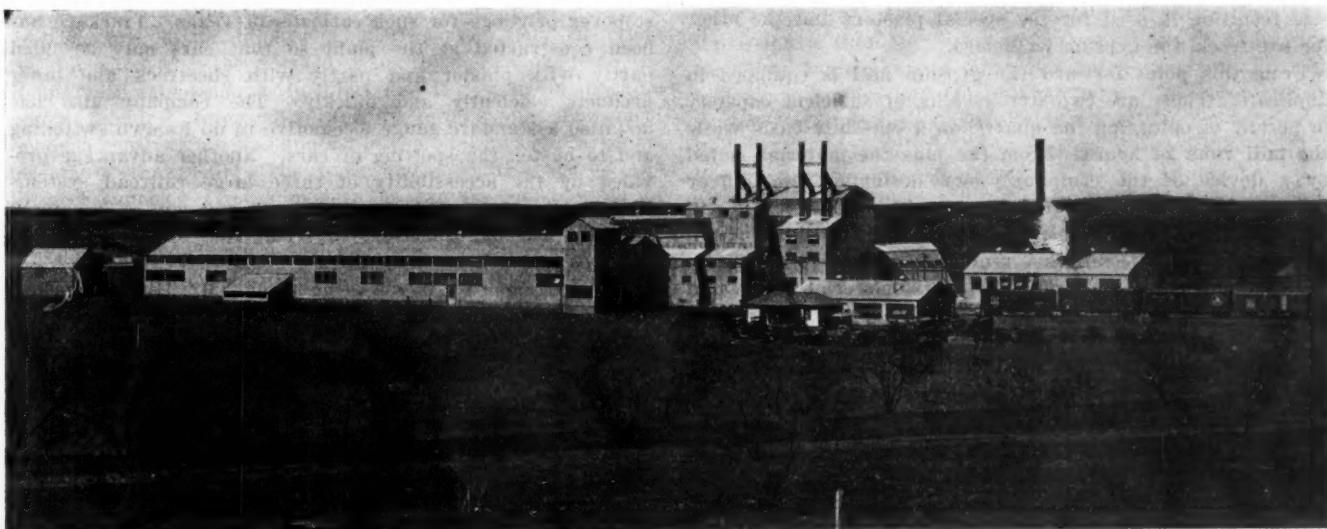
Gypsum rock was found in two strata—the upper one 18 feet below the surface and 18 feet thick; the lower one, under a ledge of standstone, about 15 feet thick. Six miles from the location of the rock quarries was found a gypssite bed in which "gypsum earth," or "gypsum clay," was found to a depth of from four to ten feet under a light overburden. These minerals occur there in sufficient quantity, according to the company's engineers, to supply the gypsum requirements of the nation's building industry for a century. Their quality is equally high. The gypsum rock analyzed 98 per cent calcium sulphate—sufficiently pure to make the whitest plaster manufactured in the United States, including the finest grade of moulding, pottery, dental and

orthopedic plasters, as well as gypsum wallboard and other materials used in building construction. The gypssite, from which are made the "dark" plasters for the scratch and brown coats of houses, was found to contain 80 per cent of calcium sulphate, a percentage so high that it is necessary to tone it down for some purposes. These materials also were given manufacturing tests at others of the Gypsum Company's plants, which resulted in the discovery that their physical properties were perfectly adapted to exploitation.

Upon ascertaining these facts, the concern purchased 300 acres of land and the mineral rights to 80 acres more. Preparations were made for building, plans being drawn in the firm's engineering department and construction being conducted under its own supervision. Actual construction was begun in August, 1923, with the expectation of completion within nine months. Some difficulties were met, owing to the distance of the property from town. Cottages for workmen were erected and special means of transporting materials were instituted. A part of the construction was the building of two bridges and six miles of standard-gauge railroad trackage connecting the gypssite beds with the line of the Texas & Pacific, and that, in turn, with the factory proper.

Concurrently, the quarries were opened up. At the rock quarry the surface soil is removed by a one-yard, gasoline-operated, drag-line excavator. The waste is loaded into side dump cars and hauled by the firm's own locomotive a short distance to a dump. Electrical rotary drills are used, having been adapted from those used in the coal industry for special use on gypsum. The rock is shot with non-staining, low-grade dynamite—non-staining to assure pure color in the finished product. It then is reduced to one-man size, is hand-loaded into two-ton cars which are pushed to an incline, up which they are drawn by electrically operated cables into the mills.

At the gypssite bed the land was cleared and plowed by horse-drawn disks and the overburden removed in wheel scrapers. Then the bed is disked again and the gypssite hauled in scrapers to a trap located over a standard-gauge track,



NEW PLANT OF UNITED STATES GYPSUM COMPANY, SWEETWATER, TEXAS.

where the gypsite is discharged into 50-ton gondola cars especially constructed on specifications furnished by the Gypsum Company so that the gypsite can be unloaded easily. The loaded gondolas are hauled six miles by the Texas & Pacific Railroad to the mill, where they are unloaded by a traveling crane with a 1½ yard clam either into the mill proper or into a gypsite storage house. The present storage capacity is 1000 tons and the sheds are designed to permit of easily doubling this capacity.

In brief, the manufacture of gypsite plaster (known to the building trades as "dark" plaster) consists of its removal from storage into kettles, where it is calcined, its discharge from the kettles to hotpits; its screening, cooling and mixing; the addition of retarder and sacking. In execution of this process at Sweetwater the material is elevated from the storage house to the kettles by bucket elevator. There are four such kettles in this plant; ordinarily two are used for gypsite and two for gypsum rock. All are approximately 10 feet in diameter and 12 feet deep, with a capacity of 12 tons. They are oil-fired by the equipment which the Gypsum Company has found best suited to the use of oil in calcination. They are steel jacketed and are provided with the latest improved settings. Experienced calciners who have had training in the other plants of the concern are in charge of these kettles, and quality control is made possible by recording thermometers.

From the kettles the stucco flows by gravity to hotpits, whence it is automatically elevated and run over screens which extract any foreign matter. It then is conveyed to the warehouse, where it is placed in storage bins. As it is withdrawn from storage for shipment the retarder is added. This step, one of the most important to assure exactly proper quality for each locality to which the plaster is shipped, is effected by means of a device which the company has patented for this specific purpose. The stucco is drawn from the bins into a hopper and the correct amount of retarder is added by an apparatus so arranged that it is impossible to dump the stucco into the mixer without the retarder, also. Fiber is added in the mixer, it is mixed the proper time, then is conveyed by gravity to the Bates Valve baggers, where it is automatically weighed and sacked in either paper or jute.

Gypsum follows essentially the same process route. Brought up the incline from the quarry, it is dumped into a Pennsylvania single roll crusher of sufficient size to handle any one-man rock. It then is run over an electro magnet which removes spikes and similar metallic quarry refuse. The rock then is reduced to 1½ inches or smaller particles in a Butterworth & Lowe pot cracker, after which it is run over a Seaver screen, which performs two separations. One size resulting is used for the special plasters and the other for sheetrock, the gypsum wallboard.

From this point forward the gypsum mill is equipped in duplicate. There are two storage bins, of sufficient capacity to permit of operating the quarry on a one-shift basis while the mill runs 24 hours. From the bins the material is fed by a device of the company's own designing into Jeffrey swing-hammer mills, where it is so reduced that it all will pass through a No. 6 mesh. Thence it is run through a Kent separator; the fines are removed and conveyed directly to the land-plaster bins, while the course material is elevated into a bin over Munson 36-inch under-runner buhrstones driven by vertical individual motors. It is then elevated again and conveyed to bins located directly over the kettles, where it is calcined under the same control to which the gypsite plaster is subjected. Hotpits, feeders and coolers also are substantially the same. The rock stucco is moved then either to the warehouse, where it is given special processing for different products, and, in that case, is sacked through a Broughton mixer, or else it is conveyed directly to the sheetrock mill for manufacture into wallboard.

Sheetrock is fabricated in a separate steel and concrete building, 40 feet wide and 400 long, designed so as to permit of ready enlargement. The machine forming the wallboard is of special design of the United States Gypsum Company, as is the continuous kiln also. Plaster, water and fiber are mixed mechanically, so that the material goes onto the forming rolls continuously. The finished board is handled by an electric bridge crane, which also handles the paper used in the manufacture. All the necessary control work is done on machines which the company has designed itself or by other mechanisms which it has adapted and perfected. The Underwriters' Laboratories, Inc., supervises this quality control, and the products of the United States Gypsum Company sheetrock mills bear the label of that organization. The board is moved by crane either directly into cars for shipment or into storage facilities, of which the capacity is a half-million feet.

All the buildings on this property are of steel construction roofed and walled with corrugated iron, with concrete floors. Power is generated by the operating company in a steam plant where super-heat steam is produced for high-speed, directly-connected engine generator sets. Power is distributed by the group system of motor hook-up. The boilers as well as the kettles are fired with oil.

Approximately 150,000 square feet of sheetrock wallboard and gyp-lap sheathing a day are produced in the board mill. The daily capacity of the plant is 400 tons of plaster. Half of this is gypsite, either cement or wood fiber plaster. Half of the 200 tons daily production of rock, or "white," plaster is consumed in the fabrication of wallboard. The remaining 100 tons a day are apportioned between Aridize gauging, moulding, pottery, dental and orthopedic plasters. The Sweetwater plant also produces land plaster, or agricultural gypsum, and crushed rock used by cement or chemical companies. An exceptional feature of the establishment is that it includes facilities for screening by which the rock may be reduced to the sizes most adaptable to its various uses, a refinement not practised by other gypsum-crushing concerns.

Construction was pushed so that the factory was finished in eight months, one month ahead of schedule. Extensive siding and trackage arrangements have been installed, hooking up the plant with all three of the railroad systems mentioned. The Sweetwater plant is the only gypsum wallboard mill in Texas; thus it fills an immediate need in those communities where wood ship-lap and other lumber used in house construction is limited in quantity and second rate in quality.

The company has arranged for mixed-car shipments of the mill's products to building-material dealers and for the stopover privilege for such carloads in Texas. Trackage has been constructed at the plant so that cars may be filled partly with plaster and partly with sheetrock and other products efficiently and quickly. The company also has installed a standard-gauge locomotive to do its own switching and to hasten the spotting of cars. Another advantage provided by the accessibility of three large railroad systems is that movement of gypsum products will not be interfered with by seasonal fluctuations of traffic due to the movement of crops and other commodities.

H. D. Humphreys is works manager. Mr. Humphreys has been with the United States Gypsum Company about 22 years, having had experience at its Alabaster, Mich. and Oakfield N. Y. mills before having been put in charge of its Plasterco establishment, whence he was transferred to Sweetwater. The superintendent of the sheetrock mill is F. J. Gaugh, who first went into the Chicago laboratory of the company and afterward was in charge of the wallboard manufacture at Fort Dodge, Iowa, and Oakfield. The chemist in charge of quality is A. M. Turner, who recently came to the Gypsum Company from the Colorado School of Mines.

Converting Birmingham Pig Iron Into Corliss Engines.

THE HARDIE-TYNES MANUFACTURING COMPANY ALSO FURNISHING MACHINERY FOR MUSCLE SHOALS DAM.

[Special Correspondence Manufacturers Record.]

Birmingham, Ala., July 7.

Corliss engines of sizes up to 4000 horsepower, made of pig iron produced in Birmingham from ore, coal and limestone mined and quarried almost within sight of the blast furnaces, have since 1895 been finding their way to all parts of this country and into many of the foreign countries. Twenty-seven years ago, when the announcement was made that this class of engines was to be manufactured in Birmingham south of the Ohio River, great doubt in its success was expressed by those interested in the business, both from the manufacturing line as well as the use thereof, but now the development attracts world-wide attention.

The manufacture of the Corliss engine was the first real local use of Birmingham pig iron, and has been followed widely since then, to an annual production of nearly 3,000,000 tons of pig iron, foundry, basic and charcoal, and a consumption in the home territory, the South, of approximately three-fourths of the make. The Hardie-Tynes Manufacturing Company is the only producer of the Corliss engines in the South, and the development of its business has been so steady and permanent that today the concern is one of the big plants of the country, its activities widespread and its output shipped in various directions and for use by individuals, corporations and Governments.

The history of the Hardie-Tynes Manufacturing Company is of more than local interest. In 1895 it bought out the old Birmingham Engine Works, then located not far removed from the city blast furnaces of the Sloss-Sheffield Steel & Iron Company. Fire destroyed the plant in 1901, and from that blaze arose the Hardie-Tynes Manufacturing Company and the start of the development of the present plant, now occupying five acres of land, on Eighth avenue and 28th street North, near to several railroad lines, and easy of access by local utility companies and other service. The manufacture of the Corliss engines attracted much attention right from the start, and today is still one of the leading outputs of the big plant.

When the modern plant was started on in 1901 the management of this concern looked ahead in the growth of Birmingham and the district, its possibilities as a mining section and a manufacturing district, not only in crude products but also the finished. Additions were made to the plant with that progress in mind, and it now has a machine shop, foundry, forge shop and pattern shop. The most modern construction was applied in the buildings and arrangements of the plant. The tools and machines are of the largest capacity and as modern as can be found south of the Ohio River and even elsewhere.

These developments broadened the possibilities of those in charge of the Hardie-Tynes corporation, and from the Corliss engines and general foundry and machine shop work, marine engine construction was undertaken, and during the war and since then the Government, through the Shipping Board and other agencies, has placed much work in this line. Further opportunities presented themselves as conflict between nations and conflict between corporations and labor came on, and in broadening out the Hardie-Tynes concern found itself in position with plans of rearrangements of its plant to do locomotive rebuilding and so on. During 1922-23 this proved a most valuable asset and added to the accom-

plishments of the big plant. Engine rebuilding has been done on a large scale.

As has been the case with pig iron manufactured in Birmingham and the district, as it has been with coal mined in this state, coke manufactured in a few counties, cement and clay products, so have the capacity and possibility of the Hardie-Tynes Company spread. The Corliss engines found their way into various parts of the world, one very recently being shipped to San Domingo. So have other big products started moving from the plant, some extraordinary work still being under way for the reclamation service of the Government and water power development.

The needs of the home territory have been given attention and the remarkable development in the ore and coal fields in this state was participated in. Mining hoist machinery was and is being produced on a large scale, some of the active development of this district requiring the largest of machinery of the kind. From the Alabama coal fields the work spread into the Kentucky and West Virginia fields and elsewhere.

The Hardie-Tynes plant has never been known to close down, no matter what might have affected others, notwithstanding differences, lack of work or other handicaps, there has been continued operation. The foreman of the machine shop and the foreman of the pattern shop and many other employes have been with the concern almost from the start. A co-operative spirit has been felt and extended, the men who own and manage the industry have a fellow-feeling for the employes, but at the same time maintaining the dignity of a first-class institution.

Recently, the Hardie-Tynes Company was awarded a contract for the entire operating mechanism, gates and operating machinery for the great Wilson dam at the Muscle Shoals development by the War Department. Fifty-eight gates in all are to be produced, upwards of 1,500,000 pounds of casting iron and steel to be included in the work delivery to begin within the next 90 days.

When the concern began business, there were some repair shops in existence in Birmingham. It was up to this plant to put Birmingham iron into the finished product, and a product was selected—Corliss engines, thought by some practically impossible. Into the sugar-making districts of Cuba, into the West Indies, and in many other directions the Birmingham-made engines have found their way. No other concern in the South produces Corliss engines. W. D. Tynes is president and treasurer, W. F. Tynes is vice-president, W. S. Shields secretary, and R. C. Stobert general manager.

Wilmington, N. C., Wants a Canning Plant.

The possibilities of financial profit in a canning plant for dewberries and strawberries at Wilmington, N. C., are emphasized by Neil M. McEachern, a local grower, and W. P. Evans of Laurinburg. First saying that berry growers now suffering from a slump in prices would find a market for their products in canning factories, Mr. McEachern adds:

"There are many opportunities for the manufacture of blackberry and strawberry jams, which are in large demand in the North and West."

Berries not shipped, he concludes, also could be sugared in barrels and the syrup be sold throughout the country.

GREAT INCREASE RECORDED IN SOUTHERN INDUSTRIAL ACTIVITY.

First Six Months 1924 Shows Over 35,000 Construction News Items Published in Manufacturers Record—29,825 for Same Period 1923.

Reports published by the MANUFACTURERS RECORD for the month of June show that industrial, building and development work throughout the sixteen Southern states continues with unabated activity. The total number of items for the month is 6091, as compared with 7572 for May, which would indicate lessened activity, but they may not be so regarded, because May's figures embrace five weeks, and June covers only four. For the six-month period from January 1 to June 30, inclusive, as compared with the corresponding period of last year, there is a great increase. A total of 35,254 items was published during the first six months of this year, as against 29,825 for the corresponding period of 1923.

For the six-month period of this year road and street construction involves a total of 4377 items, with a June total of 813. Items relating to miscellaneous enterprises total 392 for June, and 2762 in six months. Land development items reach a total of 333 for June and 1478 for the six-month period, while those relating to the construction of bridges, culverts and viaducts total 283 for June and 1426 for six months.

In building activity, dwelling construction shows great progress, with 460 items reported during June and 2540 for the first six months of the year. School construction is unusually active, a total of 418 items having been reported for June and 2199 during the six-month period. A total of 244 apartment and hotel items was published in June and 1238 during the first six months of the year.

The foregoing figures show that there is sustained expansion throughout the Southern states, with indications that summer will not record an appreciable decline.

	Totals for June.	Jan.-June (Inc.)
Industrial Developments:		
Bridges, Culverts, Viaducts	283	1426
Canning Plants	15	84
Clayworking Plants	9	62
Coal Mines and Coke Ovens	16	152
Concrete and Cement Plants	9	65
Cotton Compresses and Gins	33	161
Cottonseed Oil	2	16
Drainage and Irrigation	13	79
Electric Light and Power Plants	93	561
Fertilizer Plants	3	19
Flour, Feed and Meal Mills	9	71
Foundry and Machine Plants	32	143
Gas and Oil Developments	85	540
Ice and Cold Storage	26	175
Iron and Steel Plants	2	20
Land Developments	333	1,478
Lumber Enterprises	60	372
Metal-Working Plants	3	34
Mining	26	147
Miscellaneous Construction	60	353
Miscellaneous Enterprises	302	2,762
Motor Cars, Garages, Tires, etc.	134	946
Railways and Street Railways	3	33
Railway Shops, Terminals, Roundhouses, etc.	5	41
Road and Street Construction	813	4,377
Sewer Construction	103	587
Shipbuilding Plants	1	7
Telephone Systems	16	110
Textile Mills	17	204
Water Works	122	708
Woodworking	23	213
	2,761	15,946

Building:	
Association and Fraternal	46
Bank and Office	93
Churches	166
City and County	65
Dwellings	460
Government and State	9
Hospitals, Sanitariums, etc.	55
Hotels and Apartments	244
Miscellaneous	96
Railway Stations, Sheds, etc.	9
Schools	418
Stores	201
	1,066

	Totals for June.	Jan.-June (Inc.)
Theaters	27	146
Warehouses	26	220
	1,915	11,040
Financial:		
Corporations	123	744
New Securities	432	2,374
	555	3,118
Machinery, Proposals and Supplies Wanted...		
Total	749	4,133
Fire Damage	111	1,017
	6,091	35,254

June Cotton Condition and Acreage Report of American Cotton Association.

The American Cotton Association has issued its June 30th condition report of the growing crop and estimated acreage planted to cotton for 1924, as shown in the accompanying table. The report also summarizes important features, such as weevil and other insect infestation, percentage of acreage poisoned, relative stands and condition of cultivation.

The planted area is estimated to be 38,429,000 acres, an increase of 3.5 per cent over the 1923 acreage.

June condition of growing crop estimated at 68.1 per cent, which compares with 10-year average of 74.8 per cent.

Forecast of production 11,065,000 bales.

State	Estimated Acreage 1924	Condition June 23, 1924 (Per Cent)	Weevil Infestation	Condition Cotton Stands	Cultivation
Virginia	85,000	57	None		
North Carolina	1,780,000	66	Light	57% Poor	55% Grassy
South Carolina	2,242,000	67	Light	55% Good	60% Clean
Georgia	3,524,000	71	Light	75% Good	70% Clean
Florida	136,000	70	Light	55% Good	66% Clean
Alabama	3,110,000	67	Heavy	70% Poor	55% Grassy
Mississippi	3,040,000	72	Light	55% Poor	75% Clean
Louisiana	1,433,000	70	Heavy	75% Good	80% Clean
Texas	14,858,000	67	Light	65% Good	60% Clean
Arkansas	2,907,000	66	Light	60% Poor	55% Grassy
Tennessee	1,137,000	65	Light	55% Poor	55% Grassy
Missouri	380,000	63	Light	60% Poor	50% Grassy
Oklahoma	3,454,000	71	Light	70% Good	80% Clean
California (Upper)	97,000	91	None	Good	Clean
Arizona and All Others	246,000	89	None	Good	Clean
U. S. Average	38,429,000	68.1			

Acreage Planted: The estimated cotton acreage planted for 1924, based upon the reports from correspondents in all of the cotton-growing counties, amounts to 38,429,000 acres. Comparing this estimate with the Government acreage of 37,130,000 acres harvested in 1923 there is shown an estimated increase of the planted acreage for 1924 of 3.5 per cent.

Condition of Crop: The reported June condition of the crop is estimated to be 68.1 per cent as compared with our May estimate of 64.9 per cent, indicating an improvement in condition of June over May of 3.2 per cent. The 10-year average for June by the Government is 74.8 per cent, which indicates that the present June condition is 6.7 per cent under the last 10-year average.

Weevil Infestation: Reports from Alabama and Louisiana show heaviest infestation of weevil, while the majority of the reports from the other states indicate generally light infestation; a large number of the reports show increasing infestation of the weevils. In addition to weevils, correspondents from all the states report damage to the crop from lice, cutworms, root rot, red spiders, blight, army worms, wilt, grasshoppers, black root and caterpillars.

The Morrison Realty Co., Atlanta, Ga., is reported to receive bids until July 15 for the erection of a \$750,000 brick, steel, marble and stone office building, for which plans have been prepared by Raymond C. Snow of Atlanta.

\$12,000,000 Building Program at Macon for Next Two Years—Wesleyan College Starts \$5,000,000 Campaign.

By ARTHUR H. PEAVY, General Secretary, Chamber of Commerce, Macon.

Do diversified farming and diversification in industries pay? Macon, in the heart of Georgia, is an example of diversification in all lines, and the result is that business depression has failed to cause a slump in the building programs in that vicinity. According to figures recently compiled by the Macon Chamber of Commerce, based on building reports of last year, activities already announced for 1924 and estimates for the 1925 building program, Macon faces a \$12,000,000 building schedule for the next two years, while two large county buildings, representing an outlay of \$1,000,000, will be completed this year.

When business conditions all through the United States demanded that building and expansion programs be curtailed, Macon was not touched. Industrially, the city ceased to expand, but that was on account of the available hydroelectric horsepower being utilized. To meet this situation, new plants will be built during this year and next year to meet the demand of industrial heads who have chosen Macon as the logical location for manufacturing plants. The erection of these new units by the Central Georgia Power Company have been included in Macon's building program for the next two years.

Wesleyan College, the oldest chartered college for women in the world, has outgrown its present facilities and the board of trustees has already started a campaign for a \$5,000,000 college to be located in one of the suburbs. On Macon's building program for 1924-25 only \$1,000,000 is shown as representing the expenditures towards this new institution, as it is estimated that only that amount will be expended during that time.

Plans have long been submitted and accepted and the contract let for the erection of the new municipal auditorium, which when completed will rank with the foremost auditoriums of the South. The structure will cost \$600,000 and work was begun by the Southern-Ferro Concrete Company, June 1, tearing the old structure down and laying out the foundation for the new building. The auditorium will have a limestone exterior, and from plans and specification will be one of the most beautiful in the South. The architects were Edgerton Swartout of New York and Dennis & Dennis of Macon.

Ground has been broken on College street, in the heart of one of the best residential sections, for a \$500,000 apartment house, to be erected by W. J. and O. J. Massee. The building will be eight stories high and will have sixty-nine apartments, two to five room suits. It is expected to be ready for occupancy by June 1, 1925.

Through a recent bond issue passed by the city of Macon, a city-wide building program of \$600,000 was inaugurated, the work to be begun and completed before the end of 1925. The expenditures will include \$225,000 for additional storm and sanitary sewers, \$150,000 for the Fifth Street bridge, \$25,000 for improvements in the Fire Department, \$100,000 for paving. In compiling the paving figures, it has been brought out that the figures will increase to \$300,000, as the city pays one-third of the paving costs and the property owners two-thirds.

Last year the building in the city and the immediate suburbs totaled \$3,302,833. During the next two years it has been conservatively estimated that more than \$6,000,000 will be expended for new homes and improvements in and near Macon. In the business and industrial section, due to the introduction of new electric power, \$600,000 will be expended

in new plants, business houses, improvements and expansion.

Next September will see the completion of the \$500,000 boys' high school, and this month the new county court house and jail, costing \$500,000, will be occupied.

Wants Site in South for Plant to Employ 1500 to 2000 Hands, Mainly Females.

Cincinnati, Ohio, July 5.

Editor Manufacturers Record:

I am considering building a plant (*not silk*) at some point in the South where there is an abundance of reasonably-priced female labor, as well as sufficient male common labor.

In case you are in a position to make me a proposition for the location of a plant requiring a total of from 100 to 2000 employees, I would be glad to have same with full details.

PETER G. THOMPSON, JR.

New \$285,000 Telephone Plant for Morgantown.

Morgantown, W. Va., July 4—[Special.]—The Chesapeake & Potomac Telephone Co. will expend \$285,000 for a new telephone plant at Morgantown, a site having been purchased, on which a modern, fireproof building will be erected. Facilities will be provided for business office, wire chief's office, frame and terminal rooms, operating room and rest quarters for operators. The land and building are to cost \$165,000. New switchboards, central office equipment, fixtures and furniture will be installed at a cost of \$120,000.

\$300,000 Building Program at Chattanooga.

Chattanooga, Tenn.—In association with the Dixie Concrete Products Co., a subsidiary of the Dixie Portland Cement Co., T. R. Preston and C. M. Preston will expend \$300,000 for the erection of residences on Belvoir avenue and Brainerd road. The houses will be erected on lots with an average frontage of 75 to 100 feet and a depth of 200 feet, the cost of the house and lot to be from \$5000 to \$8000 each. Plans are being drawn by W. H. Sears, William Crutchfield and Gordon L. Smith, all of Chattanooga. Work has already begun on three houses.

Will Build \$300,000 Church in Norfolk.

Norfolk, Va.—By action of the congregation of St. Luke's Episcopal Church here, Ralph Adams Cram of Boston has been commissioned to prepare plans at once for the erection of a new church on Colonial avenue at 15th street to cost \$300,000. The main auditorium will have a seating capacity of 800, while the parish-house will be modern in every detail.

No definite date has been set for beginning construction, but it is desired to secure plans so that work may begin when conditions permit. Rev. Dr. D. W. Howard is rector of the church.

\$400,000 in Contracts for Two Buildings for Technological College.

Lubbock, Tex.—Contracts have been awarded to Ramey Bros. of El Paso and to J. B. Maxey of Lubbock, at \$371,383 and \$26,752, respectively, for the erection of the administration building and president's home for Texas Technological College here, of which Dr. P. W. Horn is president, and Amon G. Carter is chairman of the board of directors.

Plans are being prepared for men's and women's dormitories, textile building, power plant, etc., and bids will be invited for the construction of these from time to time as appropriations become available. Sanguinet, Staats & Hedrick of Fort Worth are the architects, associated with William Ward Watkin of Houston, and L. W. Robert, Jr., of Atlanta, as consulting engineer.

Cheaper Fuel, a World-Wide Problem, Under Investigation, With Promising Results.

Commerce and defense have forced a world-wide quest for cheaper and more abundant fuel, according to the American Chemical Society, which makes public a report on international progress in this field by Dr. R. T. Haslam and Dr. E. W. Thiele of the Massachusetts Institute of Technology. Summarising conditions in the leading nations, the report says:

"In comparing the trend of progress in fuels and fuel technology in the principal countries of the world, it is apparent that the problems selected for investigation are determined by the requirements of national defense and economic necessity.

"In the United States, with competition, much attention has been directed to the production of cheap and abundant power by the erection and interlocking of large central power stations into great super-power systems, and by the attainment of high boiler efficiencies through the use of powdered coal.

"In England, with its smoke problem, caused partly by the use of soft coal in open domestic grates, and with its necessity for large home supplies of bunker oil for the use of the Navy, attention has turned to the low-temperature carbonization of coal which gives a smokeless semi-coke for use in grates and at the same time a large yield of liquid fuel.

"On the other hand the safety of France lies in adequate land defense requiring great quantities of lighter motor fuel for automobile and aviation. Owing to a lack of petroleum, other methods of supply are needed, and its great tropical possessions naturally suggest vegetable sources for this fuel; therefore, in France several different investigations are in progress along this line.

"Germany is also short of oil, but owing to the recent loss of high-grade coal fields this latter shortage is more pressing at present; hence in Germany important studies in the use of low-grade fuel and in the more rational chemical utilization of all kinds of fuels are now being carried on."

The most important single development in the United States during the last few years is said to be the great increase in the use of powdered coal, the greatest efficiency having been obtained at Milwaukee.

In Europe the greatest development of powdered coal so far has been in France. In England the installation of powdered coal equipment is just beginning. Many English and German authorities are not convinced that powdered coal is a logical improvement in methods of using coal.

"In the field of domestic heating," says the report, "the increase in fuel oil burners has been phenomenal. The total number of such burners now installed in this country is probably more than one hundred thousand. Practically all this development has come in the past two or three years. The most pressing economic necessity in this field is the development of a cheap, dependable burner for small and medium-sized homes.

"In the industrial field the use of mechanical atomization continues to increase in favor, owing primarily to the ability of this system to maintain a high efficiency when operating at high overloads."

As to gaseous fuels, the use of oxygen-enriched air in gas making is entering upon a period of positive development, notably at Worcester, Mass., where a plant for producing \$150,000 cubic feet of oxygen per day is expected to be in operation late this summer.

"It is quite possible," the report says, "that this may be the beginning of a revolutionary development in the methods of gas production."

Discussing liquid fuels, the report says that the addition to gasoline of small amounts of a material such as lead

tetra-ethyl will make possible the designing of high compression engines capable of a 30 per cent increase in fuel efficiency.

"This, together with the reduction in weight of the automobile having such an engine, offers the possibility of a saving of at least 40 per cent of our gasoline," it is stated. "On the basis of the 1923 consumption of gasoline in this country alone, this means an eventual saving of at least 2,500,000,000 gallons of gasoline per year. Gasoline treated with an anti-detonation mixture is already on sale in many states, particularly in the middle West."

The production of alcohol and motor fuels containing alcohol has aroused intense interest in France, it is said, where the need of a motor fuel from sources other than petroleum is a matter of national safety.

The Bergius process for production of liquids from solid fuels is being tried out in Belgium, and is described as "undoubtedly one of the most important recent developments in the oil industry, principally for countries having coal but little oil, like most of western Europe." For these countries this process opens up a new source of the lighter motor fuels.

The constitution of coal, spontaneous combustion and storage, low-temperature carbonization, utilization of lignites, the combustibility of coke, coal washing, reclaiming peat and low-grade fuels and gas manufacture are other problems now being widely studied.

To Take Over North Carolina Talc Properties—New Company Organizes in Boston.

Boston, Mass., July 5.—[Special.]—The Pyro Talc Co. has organized here to take over mineral properties in Glendon, Moore county, N. C. Authorized capitalization will include \$250,000 of common stock, of which \$150,000 will be issued for the W. E. Paschal property, comprising 160 acres, with dwelling houses, storage houses, power house and mill house, and the Isaac Green property, comprising six acres, both in Glendon; \$49,000 will be issued for reduction mill on the Paschal property, having a capacity of 300 tons per week, together with mining and reduction apparatus and appurtenances, including tracks and cars, and 50 tons of manufactured talc; \$1000 will be issued for cash, and \$50,000 for treasury stock.

Charles P. King, 43 Tremont street, Boston, is president of the company.

Baltimore to Vote on \$21,500,000 Improvement Loans.

Details of ordinances affecting the rate of interest on improvement loans aggregating \$21,500,000 are being considered by the City Register and City Solicitor of Baltimore. The ordinances will be considered by the City Council in September and the loans will be submitted to a vote at the general election on November 4. They will include the following: Streets and bridges, \$7,000,000; sewers, \$10,000,000; municipal building as annex to city hall, \$2,000,000; electrical conduits, \$1,500,000, and art museum, \$1,000,000.

Orange Chamber of Commerce Elects.

Officers and directors have been elected for the Chamber of Commerce, Orange, Tex., for the ensuing year as follows: E. W. Ogden, president; James Alberts, first vice-president; J. O. Sims, second vice-president; E. E. MacFarland, treasurer. The directors, in addition to the foregoing, are S. M. White, B. F. Brown, H. J. L. Stark, W. M. Reid, Geo. E. Cole, Geo. Colbert, C. C. Leedy, R. B. Goree, J. N. Sims, R. S. Manley, C. W. MacFarlane, F. W. Hustmyre, O. H. Campbell, D. A. Pruter, H. V. Gudger, W. A. Campbell, Geo. Cloud, J. N. Parker, Cliff Douglass.

Will Rebuild Catawba Hydro-Electric Plant at Cost of \$8,000,000—To Generate 80,000 Horsepower.

The Southern Power Co. of Charlotte, N. C. plans to rebuild immediately at a cost of \$8,000,000, the old Catawba hydro-electric plant located about 20 miles from Charlotte and 7 miles from Rock Hill, S. C. W. S. Lee, vice-president and chief engineer of the company wires the MANUFACTURERS RECORD that the Wateree Power Co. will reconstruct the Catawba station, installing equipment for 80,000 horsepower. Work will be done by the company's forces, contracts for hydraulic and electrical equipment to be closed at the New York office of Mr. Lee on July 10.

It is stated that the new plant will be one of the three largest in the system of the Southern Power Co. its equipment to consist of four 20,000-horsepower units. It will have an effective head of 65 feet as compared with a head of 25 feet at the present plant. The present dam and plant will constitute a part of the larger dam to be constructed, plans of the company contemplating the continued operation of the old plant until the new one is completed.

Incidental to its construction, it is announced that contract has been awarded to McDowell Contracting Co. of Marion, N. C., for building a railroad from a point near Fort Mill, S. C. to the site of the plant.

To Develop Motion Picture Center Near Daytona.

Daytona, Fla., July 4.—[Special.]—Development of a motion-picture production center to be known as "Sun City" will begin immediately, reports R. L. Smith, president of the corporation financed by local and Eastern capitalists which is backing the project.

Sun City is to be located on a 3000-acre tract fronting on Halifax and Tomoka Rivers in Halifax county, comprising the communities of Ormond, Ormond Beach, Daytona and Daytona Beach, and Seabreeze, Fla. The Dixie Highway and the Florida East Coast Railroad give access to the property. Three hundred acres have been set aside for the moving-picture colony.

Development plans, it is stated, include the erection of an administration building, a library and clubhouse, hotel, auditorium, riding academy, swimming pools, parks, riverside driveways, etc. Studios are to be constructed of Coquina rock and designed along Moorish lines.

Officers of the corporation founding Sun City are: R. L. Smith, Daytona, Fla., president; T. J. McReynolds, Atlantic Bank & Trust Co., Daytona Beach, Fla., vice-president; John F. Walker, East Coast Bank & Trust Co., Daytona Beach, Fla., vice-president; T. J. McReynolds, Jr., R. L. Smith & Co., Daytona, Fla., manager and treasurer; and J. B. Kahn, developer of Kahnway Heights, Daytona, Fla., secretary.

Durham Waterworks Contracts Total Over \$1,000,000.

Durham, N. C.—As a part of the improvements planned by the City of Durham at an aggregate cost of \$2,000,000, contracts have been awarded on the project to a total of more than \$1,000,000. The largest of these contracts went to the Haraway Contracting Co., Columbus, Ga., at \$934,832, for the construction of the proposed dam, laying necessary pipe, installation of check valves, erection of pole line, clearing dam site and building power house.

Other contracts were awarded to the Lynchburg Foundry Co., Lynchburg, Va., for cast iron pipes, \$72,451; Chapman Valve Manufacturing Co., Indian Orchard, Mass., gate valves, \$6800; Elliott Co., Pittsburgh, Pa., strainers \$4776; Builders, Iron Foundry, Providence, R. I., venturiometers, \$1368; Western Electric Co., New York, line material, \$19,737, and Knoxville Iron Co., Knoxville, Tenn., reinforcing steel, \$5052.

\$676,209 in Textile and Bank Dividends.

Spartanburg, S. C., July 5.—With two mills still to be heard from, the textile mills of Spartanburg county paid \$591,119 in dividends to their stockholders in the disbursements of July 1, the Enoree and Fairmont plants not having made their financial announcements at that time. These figures were compiled by C. P. Wofford & Co. of Spartanburg.

Great satisfaction at this showing was expressed by local textile men, who pointed to the fact that cotton mills in many parts of the country have of late curtailed their schedules, whereas some of the mills in the Spartanburg section have been working overtime, though now a few are returning to a regular schedule.

The disbursements as compiled by Wofford & Co. were as follows:

Mill	Dividend Per Cent Rate	Stock	Dividend
Arcadia Mills	5	\$200,000 common	\$10,000
Arcadia Mills	3½	710,000 preferred	24,850
Beaumont Mfg. Co.	3	200,000 common	10,000
Beaumont Mfg. Co.	3	200,000 preferred	6,000
D. E. Converse Co.	3½	1,000,000 common	35,000
Chesnee Mills	5	394,900 common	19,745
Clifton Mfg. Co.	4	2,500,000 common	100,000
Cowpens Mills	4	100,000 preferred	4,000
Drayton	3½	296,700 preferred	10,384
Inman Mills	3½	600,000 common	21,000
Jackson Mills	4	345,550 common	13,822
Pacolet Mfg. Co.	5	2,000,000 common	100,000
Pacolet Mfg. Co.	3½	2,000,000 preferred	70,000
Saxon Mills	3	900,000 common	27,000
Spartan Mills	4	2,000,000 common	80,000
Victor-Monaghan	1¾	1,011,000 preferred	17,892
Whitney Mfg. Co.	3	600,000 common	18,000
Woodruff Cotton Mills..	3	787,000 common	23,625
Total			\$591,119

According to figures by the same firm, 23 banks in Spartanburg county paid an aggregate of \$85,090 in dividends to their stockholders at the opening of this month, four being on a 6 per cent basis.

The total of the textile mill and the bank dividends runs to \$676,209.

New Steamboat Company for Chesapeake Bay.

The Baltimore, Newport News & Norfolk Steamship Company was recently organized, it is stated in a stock prospectus of the corporation for the purpose of engaging in freight and passenger service between Baltimore, Md., and Old Point, Newport News and Norfolk, Va., and making connections at Norfolk with several other lines of steamboats. The capital stock is announced as being \$250,000 of 8 per cent preferred stock and \$500,000 common stock. The service will be known as the Lee Line. Jackson Brandt, 608 American Building, Baltimore, is president; Judge John A. L. Campbell of New York, vice-president; George B. Pelton, secretary and treasurer, and Robert T. Ford, general manager. There are five directors, including the first three officers, together with R. E. Leutbecher and H. L. Langrall, both of Baltimore. It is proposed to begin operations with two steamers, but the date is not yet announced.

Construction on New Florida Line.

The Florida Western & Northern Railroad Co., according to a report from Palm Beach, Fla., has begun work there for its projected line of about 200 miles from that city to connect with the Seaboard Air Line at Coleman, Fla., permission having been given by the Florida East Coast Railway Co. for building a side track from its line to the right of way of the new road, this for the purpose of carrying construction materials. This connection will be half a mile long and its use will avoid much hauling on motor trucks. The line between Palm Beach and St. Lucie is being graded, with expectations that this part of the road will be ready for tracklaying some time in September.

THE IRON AND STEEL SITUATION

Absence of New Developments in Steel Trade.

Pittsburgh, Pa., July 7.—[Special.]—The steel trade has been quite devoid of important or interesting developments. No general trend is shown by current events, but from the long range viewpoint this very absence of developments helps to show that a distinct upturn cannot long be delayed.

A few mills were closed for all of last week, on account of the holidays, while most of the others did not resume for the single day after the holiday. A few mills or departments will be closed this week. In anticipation of such closing there had been a little extra production, while there will be some extra production on resumptions, with accumulations of orders.

Thus the mill operating rate is not clearly defined, but there is ground for estimating that mill operations as a whole will average 35 to 40 per cent for the month of July, against approximately 45 per cent in June.

The steel industry has given a very interesting illustration of the working out of the law of averages. In the past six months there has been much exciting and much depressing news. First the mills speeded up operations at an unprecedented rate, the steel ingot producing rate increasing 45 per cent in two months, and to a new high record rate, about 51,000,000 tons a year. This rate was maintained for perhaps two weeks and then a decline began, which grew very sharp, the total decrease being about 60 per cent.

All of this was very remarkable, but the drab and insipid ending is that the half year's production of steel ingots exactly equals the average rate of the two years preceding. The production was about 19,500,000 tons, or at a rate of 39,000,000 tons per annum. The 1923 production was 11½ per cent above this, while the 1922 production was 11½ per cent below it.

There was some stocking up by steel buyers early in the year, while lately there has been energetic liquidation, and the second half of the year is begun with practically a clean slate. A continuance of the present rate would make about 10,000,000 tons of ingot production in the half year but in view of recent performances it is immeasurably easier to believe that production will be much more than that, and if so the revival cannot be long delayed, hardly even to September 1, which is about the earliest date the professional prognosticators mention.

For months steel prices have been showing a downward trend, but the actual declines, taking the whole steel market, have not been large. By a weighted average, the important finished steel products advanced almost \$20 a net ton from the post-war low point, early in March, 1922, up to April, 1923. Since then they declined just a trifle more than one-tenth as much. There is some talk of steel buyers awaiting further declines, but their not expecting declines would not make them buy more freely at this time. The buying depends upon the ultimate consumer more than upon the direct customers of the mills. There would be no buying from fear of price advances or fear that otherwise deliveries would not be made, for there is ample mill capacity.

There have been no definite declines in any steel prices in the past week. Bars, shapes and plates are a shade easier in the east, being unchanged in the Pittsburgh market at \$2.15. Areas in which prices of wire products are being shaded may have increased a trifle. The few mills that were cutting the regular sheet prices are going a trifle deeper in some cases.

The cotton tie selling season opened July 1, much later than usual, and without the regular season price, f. o. b. Pittsburgh. Mills are naming delivered prices and are disinclined to discuss the system they use, but comparisons

indicate rather clearly that the basis is \$1.40 per bundle, f. o. b. Atlantic Coast ports, and probably \$1.43 f. o. b. Gulf ports. The obvious object of such a system would be to obtain the best prices possible and yet keep under prices on imported ties. In previous seasons prices have been f. o. b. Pittsburgh plus rail freight to point of delivery, and ranging from low levels of 65 cents in 1914 and 70 cents in 1909 and 1912 up to \$2.10 in 1917 and 1918 and \$2.00 in 1920, subsequent prices being \$1.30 in 1921, \$1.10 in 1922 and \$1.60 in 1923. The bundle weighs 45 pounds including buckles and the hoops involved take an extra of 40c over the base price of hoops, which is now quotable at \$2.75 per pound.

The Standard Sanitary Manufacturing Company, Pittsburgh, has bought 12,000 tons of Southern iron for third quarter delivery to its Louisville plant, on the basis of \$18.50, Birmingham, which represents a decline. The local market remains quotable at \$20.50 for Bessemer, \$19 for basic and \$19 for foundry, f. o. b. valley furnaces, freight to Pittsburgh being \$1.76.

Several contracts for Connellsville furnace coke have been made at \$3.00, which is now the recognized market, representing a decline of 25 cents in three weeks.

The iron and steel scrap market in the Pittsburgh district again shows a slightly stiffer tone. There is scarcely any consumer buying, except small lots by the steel foundries, but some steel mills are bidding for No. 1 railroad steel and willing to pay considerably more than they would for ordinary heavy melting, and dealers are bidding slightly better prices for scrap to put in yard.

Metals Market Hopefully Marking Time.

Birmingham, Ala., July 7.—[Special.]—Quotations lower than they have been in months, a little buying being done, hope held out now that there need not be drastic readjustment of the production, steady delivery of iron on old and new contracts—these are the features of the pig iron market in the Birmingham district. Consumers of pig iron in the home territory have not come into the market with business beyond their immediate needs, though quotations are now set at \$18.50 per ton, No. 2 foundry, \$4 per ton less than prevailed 90 days ago.

Intimation is given that there will be no trouble a little later on, when iron should be needed, and that prices will not have advanced very much. Some melters of iron even express opinion that there will be further deflection in the prices, though furnace interests have been asserting that the rock bottom quotation has been reached. Consumers of iron in some instances report brighter prospects, some even saying that a turn for the better is in sight.

The soil pipe trade is lagging and a \$10 reduction in prices, down to \$50 for standard cast iron pipe, has not had any effect on buying. Pressure pipe makers have been receiving more satisfactory orders and there is little doubt as to this trade participating in steady activity through the balance of the year. Cast iron pipe prices, pressure pipe, have been reduced, \$1 and more per ton. Centrifugal pipe has been selling lately.

Foundries and machine shops are still reported receiving some business, but there is no buying of pig iron on their part beyond the absolute needs of the immediate future. Competition with Northern and Western furnace interests may be possible shortly. Other than the cast iron pipe shops, pressure pipe and the radiator plant, there is no interest that has been melting iron steadily. Several of the soil pipe shops are shut down and a number are still operating only partially.

The report as to the Southern steel market shows no

change from last week, the demand running about the same, with some plants operating to capacity and others, limping mightily. Steel fabricating plants are doing well and considerable structural steel is being shipped from here.

One of the more active industries of the district is that of cement. The past three months have seen heavy production and very steady shipment of the product. The prospects for this and next month are exceptionally bright. There will hardly be any storing of cement and it may be necessary to take from the warehouses some of the product. Alabama-made cement is being shipped in various directions. The output is being increased by the addition of a fourth kiln by the Lehigh Portland Cement Company at its Tarrant City plant, near the city limits of Birmingham.

Slight improvement in the coal industry is announced, but there is yet plenty of room for improvement. The production figures show an increase. Interesting developments are under way in the Birmingham district which may bring about results. The Sloss-Sheffield Steel & Iron Company is now selling coal and coke direct to the consumers. Bins have been erected in the city limits and a delivery service is being established. Washed coal is being sold to the public. The expectations are that a large quantity of coal can be thus disposed of. Another interesting feature in the coal mining industry is the experimenting going on with the use of limestone dust in "tamping" holes in mining operations in the coal, using less powder and less clay. This will have a tendency to break down the coal more in lumps and inasmuch as the steam coal is reduced, there should be a greater amount of operations with lump coal being mined. The claim is also made that the use of limestone dust will lessen danger in explosions. Some export business is being brought to the district also.

Coke production has been reduced recently. Several batteries of by-product coke oven plants have been closed down for repairs or with the purpose of curtailing production. Coke quotations have taken on a little increase, foundry coke now being quoted as high as \$5.75 per ton. Few long time contracts for coke are being placed now in this territory.

The scrap iron and steel market is very slow. What little old material moving is mainly on old contracts. Quotations have been readjusted recently, but consumers almost have been making their own price. Heavy melting steel, the principal scrap product, is without life.

Pig iron and iron and steel scrap quotations follow:

PIG IRON.

No. 2 foundry, 1.75 to 2.25 per cent silicon, f. o. b. furnaces, \$18.50 to \$19.00; No. 1 foundry, 2.25 to 2.75 per cent silicon, \$19.00 to \$19.50; iron of 2.75 to 3.25 per cent silicon, \$19.50 to \$20.00; iron of 3.25 to 3.75 per cent silicon, \$20.00 to \$20.50; iron of 3.75 to 4.25 per cent silicon, \$20.50 to \$21; charcoal iron, f. o. b. furnaces, \$31.00.

OLD MATERIAL.

Old steel axles.....	\$17.00 to \$18.00
Old iron axles.....	19.00 to 19.50
Old steel rails.....	11.00 to 12.00
Heavy melting steel.....	11.00 to 11.50
No. 1 cast.....	15.00 to 16.00
Stove plate.....	14.00 to 15.00
No. 1 R. R. wrought.....	11.00 to 12.00
Old car wheels.....	15.00 to 15.50
Old tramcar wheels.....	15.00 to 16.00
Machine shop turnings.....	6.00 to 7.00
Cast iron borings.....	9.00 to 10.00
Cast iron borings (Chem.).....	15.00 to 16.00

Houston Terminal Railroad Organized.

W. B. Drake, railroad superintendent of the Houston Port Commission, has been elected president of the New Port Terminal Railroad of Houston, Tex., which has been organized by railroad companies using that port. The board of control is composed of officers of the nine railroads there, including the Public Belt Railroad. It is stated that the terminal railroad will save a great deal of loading and unloading of through freight.

RAILROADS

A New Route to Florida Suggested.

Interesting speculations as to the future of the Georgia & Florida Railway have been circulated in New York financial circles because of the contemplated extension of the road from Augusta, Ga., northward to Greenwood, S. C., about 55 miles. It is pointed out that if this extension is built it might result in establishing a new through route to and from Florida points, as the line which is now 250 miles long from Augusta to Madison, Fla., would then be connected with the Seaboard Air Line at each end, and it would also be directly connected up with the Piedmont & Northern Railroad, which is J. B. Duke's electric interurban line in the Carolinas, and through it with the Clinchfield Route that the Atlantic Coast Line and the Louisville & Nashville Railroad have just been authorized to lease under conditions which would leave it open to use as a through connection with other roads such as the Seaboard, etc. As the Clinchfield connects at its northern end with the Chesapeake & Ohio system, the possibilities of through travel from points as far west as Chicago becomes apparent. The extension would also permit the northernmost lines in the Seaboard system to handle traffic to and from Augusta via the Georgia & Florida connection at Greenwood.

The New York reports say that John Skelton Williams of Richmond, Va., and J. B. Duke of New York are planning the new through route here outlined. Mr. Williams is receiver of the Georgia & Florida Railway, in which considerable Baltimore and Richmond capital is invested. The line, which was chartered eighteen years ago, is composed of several short lines of railroad that were linked together and improved, the last one to be acquired being the Augusta Southern Railroad, 26 miles long from Augusta to Keyesville, Ga., over which the Georgia & Florida trains had previously run into Augusta. This was similarly improved, and what was formerly a lot of little disconnected roads is now a complete whole from Augusta to Madison, the latter point being about 110 miles west of Jacksonville on the Seaboard's Jacksonville-Tallahassee line. Altogether there are a little more than 400 miles of lines in the Georgia & Florida system, which, it may be remarked, conducts a through Pullman service between Augusta and Jacksonville via Valdosta, Ga., between which point and Jacksonville the through train service uses the tracks of the Georgia Southern & Florida Railway that is part of the Southern Railway system.

Thus the availability of the Georgia & Florida Railway as an important line in a through route to Florida is doubtless responsible for a current rumor that one or more of the larger railroads in the South would like to acquire the property, but it is simultaneously stated that neither Mr. Williams nor his associates are desirous of selling, believing that with a reorganization the future of their road will be satisfactory and profitable.

Will Spend \$5,000,000 for Improvements.

Tyler, Texas, July 5.—[Special.]—Daniel Upthegrove, president of the St. Louis Southwestern Railroad, with headquarters in St. Louis, who has been making a tour of that system's lines in Texas, made the announcement while here that the company would expend approximately \$5,000,000 for improvements in this state during the present calendar year. These improvements, he said, would consist largely of grade reductions, cutting out curves and ballasting the roadbed. Mr. Upthegrove expressed himself as well pleased with agricultural and general business conditions in the territory traversed by the St. Louis Southwestern system in Texas.

BIG YEAR ON THE SOUTHERN RAILWAY.

Nearly 200 New Industries Established on the System—Encouraging Business Outlook.

In the 30th annual report of the Southern Railway Company, which covers the year ended December 31, 1923, and which has just been issued, President Fairfax Harrison says: "One hundred and ninety-six new industrial enterprises were established and 188 previously existing plants were enlarged in the territory served by the Southern Railway system during the year 1923, classified as follows: New textile plants, 51; enlargements, 131; new lumber plants, 36; enlargements, 8; new mines and quarries, 17, enlargements, 3; new building materials establishments, 12; enlargements, 4; new furniture plants, 10; enlargements, 7; new iron and steel plants, 9; enlargements, 12; new flour and feed plants, 5; enlargements, 1; new miscellaneous plants, 56; enlargements, 22.

"The Southern textile industry," President Harrison goes on to say, "continued during the year the remarkable growth which has marked its development in recent years. There was a net increase of 782,665 new spindles in the South. In states outside of the South there was a net decrease of 92,510 spindles. The temporary depression from which the textile industry as a whole is now suffering affords some striking statistics of the relatively fortunate position of the Southern mills. In the four months from January 1, 1924, to April 30, 1924, the mills of the South consumed more than twice as much cotton as did the other mills of the country. The amount of cotton used in manufacture in the South was 6.84 per cent less than for the same four months of 1923. For the rest of the country this decrease was 36.03 per cent.

"Aside from the temporary ill effects of a backward planting and growing season, the generally improving tendency in agricultural conditions in the South continues. A better understanding of the problem of cotton raising under boll weevil conditions, as well as crop diversification and animal husbandry, is contributing to this improvement. The large fruit crops in prospect should find profitable markets.

"The pace set by industry in 1923 has slowed down during the last few months in the South as elsewhere. Nevertheless, the recognition that fundamental conditions are sound holds forth the promise of a continuance of business activities at the prevailing level until consumption and demand again shall afford the needed impetus to the resumption of the forward stride."

The income account for the year 1923, which was published last winter in advance of the complete report, shows a balance of \$15,136,998 over fixed charges, as compared with \$8,823,796 for the year 1922, and the operating income is equivalent to 4.73 per cent on the investment in the system. The gross revenue of the company was \$150,467,985, or 17 per cent more than in 1922. The volume of revenue freight traffic showed an increase of within a small fraction of 25 per cent, the ton mileage being 8,123,000,000, which closely approximated the record of 8,230,000,000 ton miles in 1920. In 1922 the ton mileage was only 6,513,000,000. Passenger mileage in 1923 also shewed an increase of very nearly 11½ per cent. The ratio of operating expenses to gross earnings decreased as compared with the previous year, the respective figures being 74.71 per cent and 75.62 per cent. Taxes increased more than 21 per cent.

Early this year the company ordered 25 new locomotives, 3500 new freight cars and 45 new passenger train cars, which are now being delivered. The cost of this equipment was \$8,300,000. Further particulars will be found elsewhere in this issue.

Southern Pacific-El Paso & Southwestern Deal.

The Southern Pacific Company has filed a petition with the Interstate Commerce Commission showing that it proposes to pay \$57,400,000 par value in its own stock and bonds for the El Paso & Southwestern Railway to carry out the terms of the deal for control of the latter, recently described in the MANUFACTURERS RECORD. The securities involved are \$28,000,000 of \$100 shares of common stock and \$29,400,000 of 5 per cent collateral trust bonds. The total funded debt of the El Paso & Southwestern outstanding, it is stated, is not more than \$9,100,000. It is argued in behalf of the merger that, in connection with some new construction, it will render it unnecessary for the Southern Pacific to build an extensive second track and so avoid unnecessary duplication of facilities.

New Railroad Financing.

The Chicago, Rock Island & Pacific Railway has asked the Interstate Commerce Commission for authority to issue \$10,000,000 of 5 per cent five-year notes to retire a note for \$8,000,000 and for additions and betterments.

The Seaboard Air Line Railway has been authorized by the Commission to authenticate and deliver \$4,750,000 of 4 per cent refunding mortgage bonds and to pledge them under the first and consolidated mortgage.

The Terminal Railroad Association of St. Louis has been authorized by the Commission to sell \$2,000,000 of general mortgage 4 per cent bonds at not less than 81½ per cent of par.

Shipments of Locomotives.

The Department of Commerce at Washington has announced the number of shipments of locomotives during June, their figures being based on reports received from the different manufacturers. There was a total of 145 locomotives shipped in the month, of which 134 filled domestic orders and the rest foreign, and at the end of the month there was a total of 531 orders on hand, of which 462 were domestic and the rest foreign. Since January 1 there have been shipped, including June, a total of 711 locomotives, of which 657 filled domestic orders and 54 filled foreign orders.

Freight Loadings Increase.

Loadings of revenue freight on the railroads during the week ended June 21 totaled 903,700 cars, according to the American Railway Association's car service division. This was an increase of 990 cars as compared with the preceding week. Loadings of live stock, coal and miscellaneous freight showed increases; other classes of traffic showed decreases. Since January 1 there have been 22,278,352 cars loaded with revenue freight, as compared with 22,984,031 cars loaded in the corresponding period of last year.

New Equipment.

Deliveries have just commenced on the 12,000 freight-car bodies ordered by the Pennsylvania Railroad in March of this year. The schedule calls for delivery of 100 cars per day by July 15, with a gradual increase in the number until all the cars have been placed in service for the fall traffic. The March freight car order included 3000 all-steel automobile cars, 8000 all-steel box cars and 1000 steel underframe stock cars. Trucks for the new equipment are being provided by the railroad company.

The city of Beckley, W. Va., has voted \$100,000 of bonds for improvements, including, \$50,000 for streets, \$38,000 for sewerage and \$12,000 for fire equipment.

GOOD ROADS AND STREETS

Oklahoma Expending Over \$10,000,000 for 350 Miles of Roads Under Construction.

Oklahoma City, Okla., July 5.—[Special.]—A total of 350 miles of highways representing a gross cost of \$10,000,000 is now under construction in Oklahoma, according to E. B. Guthrie, secretary of the state highway commission.

The work includes 24 Federal aid projects for 127 miles of concrete highway to cost \$5,455,000, 29 Federal aid projects for 223 miles of gravel highways at a cost of \$4,014,000 and 17 major bridge projects to cost more than \$500,000.

More than 50 additional projects are planned, it is said, and will let during the summer. The highway commission's program contemplates an \$8,000,000 to \$10,000,000 expenditure annually on new projects and an additional \$2,225,000 annually for maintenance budget.

Two County Districts Vote \$1,150,000.

Bartow, Fla.—Two road and bridge districts of Polk county have voted bond issues aggregating \$1,150,000 for the construction of hard-surfaced roads. District No. 8 has voted \$600,000 for rebuilding 31 miles of road in the phosphate belt of the county and for constructing bridges over the north branch of the Alafia River.

A bond issue of \$500,000 has been voted in district No. 8 for the construction of 45 miles of asphalt and clay roads, 15 feet wide. This district extends from Waverly on the south to Haines City and north through Davenport and Loughman, as far west as Polk City, embracing a highly developed and productive territory.

Bids Asked on Approaches to Bridge.

Charleston, S. C.—Bids will be received by the Charleston County Sanitary and Drainage Commission at its office here until July 17 for the construction of earth embankment approaches to the Ashley River bridge, now under construction on state highway No. 6 at Charleston. The work will involve about 2797 linear feet of embankments across marshes to contain 74,000 cubic yards above present marsh level. Hydraulic dredging is preferred.

Plans, specifications and proposal forms are on file at the office of the Commission and may be obtained from the office of the state highway engineer at Columbia.

Kentucky Wants Bids on Two Bridges.

Frankfort, Ky.—The State Highway Commission will receive bids until July 15, at its office here, for the construction of two bridges, one to be over Salt River and to consist of two 162-foot steel spans and three 50-foot concrete spans, with concrete substructure. The other will be built over Georges Creek and will consist of superstructure only, a 100-foot steel span, with concrete floor. Specifications, forms of proposals and information may be obtained from the office of Joe S. Boggs, state highway engineer, Frankfort.

Asheville Asks Bids on Street Work.

Asheville, N. C.—The city commissioners of Asheville will receive bids until July 14 for street improvements to consist of about 50,000 square yards of sheet asphalt, concrete, brick, durax, bitulithic or other pavement, with necessary excavation, curb and gutter, storm sewers and appurtenances. Plans and specifications will be on file at the Asheville and Durham offices of the Gilbert C. White Co., engineers and may be obtained from the latter office.

Daytona Will Receive Bids for Paving.

Daytona, Fla.—Bids addressed to Miss L. E. Hough, city clerk, will be received at the City Hall here until July 14 for the construction of pavements. The work will consist of approximately 66,400 square yards of pavement, 6300 square yards of cement sidewalks and 9700 cubic yards of grading. Different materials and types of construction will be considered and contracts may be awarded to one or more bidders. Plans and specifications are on file in the office of the City Manager at Daytona, and copies may be obtained from Harrington, Howard & Ash, consulting engineers, Kansas City, Mo.

Virginia to Spend \$451,000 for 25 Miles.

Richmond, Va.—According to a tabulation of bids recently opened by the state highway department here for the construction of eight road projects embracing a total of 25.183 miles, the cost of construction will aggregate \$451,268. Four sections of bituminous macadam, covering a total of 10.887 miles, will cost \$359,320, while two sections of concrete, having a total of 8.335 miles, will cost \$285,828. One section of topsoil, embracing 2.861 miles will cost \$29,328, and one section, to contain 1.5 miles of concrete and 1.6 miles of gravel, will cost \$62,620.

To Build Bridges on Venetian Way.

Miami, Fla.—Proposals will be received until July 23 at the office of the Bay Biscayne Improvement Co., F. C. B. Le Gro, vice-president, Miami, for the construction of twelve reinforced concrete bridges and two double-leaf bascule type steel drawbridges on Venetian Way, with a total length of 4236 feet, across Biscayne Bay between Miami and Miami Beach. Bids may be submitted on one or more of the structures, or upon the concrete or steel portions of the bridges with draw openings, or upon the entire work.

Plans and specifications may be obtained from Harvey Stanley, consulting engineer, Fort Lauderdale, Fla.

\$1,000,000 in Missouri Contracts for 98 Miles.

Jefferson City, Mo.—Contracts for roads covering a total of more than 98 miles and to cost more than \$1,000,000 have been awarded by the State Highway Commission at the office of Theodore Gary, chairman, Kansas City. Included in these contracts are 65 miles of dirt road to cost \$693,640, 28.2 miles of gravel to cost \$197,444, and 4.9 miles of hard-surfaced road to cost \$116,044. The commission also awarded contracts to build two bridges at a cost \$23,129 and for repairing two bridges at a cost of \$1804.

Notes on Good Roads Construction.

Campbell County Board of Supervisors will receive bids at the office of the county clerk, Rustburg, Va., until July 21 for the construction of 3.31 miles of topsoil road, plans for which are on file at the clerk's office and at the office of the state highway commission at Richmond.

Proposals addressed to H. A. Hodges, county auditor, will be received until July 18 at the office of F. D. Love, county judge, Georgetown, Texas, for the construction of the Hutto-Round Rock road in Williamson county.

Contracts have been awarded by the state department of highways at Nashville, Tenn., for the construction of about 75 miles of road and a number of bridges, the cost of which will approximate \$1,000,000.

LUMBER AND BUILDING MATERIALS

Orders Increase for Last Week Over 1922—Production and Shipments Decline.

Washington, July 3.—With lumber production for last week far below that of the corresponding week of last year, says the National Lumber Manufacturers' Association, new business was 10 per cent larger. At the same time shipments were about as much off as production. As compared with the preceding week, however, there was a seasonal restriction of all factors of the lumber movement. These statements refer to compilations of telegraphic reports from 359 of the larger lumber mills of the country making comparable reports.

The unfilled orders of 250 Southern Pine and West Coast mills at the end of last week amounted to 434,801,677 feet, as against 437,952,827 feet for 246 mills for the week ending June 7. The 130 Southern mills in this combination showed unfilled orders of 195,420,606. For 120 West Coast mills, the unfilled orders were 239,381,071 feet.

Altogether the 359 comparably reporting mills had shipments of 93 per cent and orders of 90 per cent of actual production. For the Southern Pine mills these percentages were 101 and 100; and for the West Coast mills 102 and 102. Of the comparably reporting mills, 338 (having a normal production for the week of 215,947,237 feet) reported production 94 per cent of normal, shipments 89 per cent, and orders 88 per cent thereof.

The following table compares the national lumber movement as reflected by the reporting mills of seven regional associations for the three weeks indicated:

	Past Week	Corresponding Week 1923	Preceding Week 1924 (Revised)
Mills	359	380	371
Production	217,512,993	259,366,887	220,475,539
Shipments	201,538,954	238,249,310	208,462,046
Orders	196,764,147	179,191,469	210,080,528

The following figures compare the reported lumber movement for the first 26 weeks of 1924 with the same period of 1923:

	Production	Shipments	Orders
1924	6,112,779,250	5,998,951,459	5,626,172,360
1923	6,079,922,795	6,447,656,782	6,041,402,168
1924 Increase	32,856,455	448,705,323	415,229,808
1924 Decrease			

LUMBER MOVEMENT FOR TWENTY-SIX WEEKS, AND FOR WEEK ENDING JUNE 28.

	Production		Shipments		Orders	
	1924	1923	1924	1923	1924	1923
Southern Pine Association:						
Total	2,014,616,502	1,944,000,464	1,984,756,697	2,053,736,494	1,893,488,031	1,957,003,446
Week (130 mills)	69,326,057	76,351,673	69,924,672	69,730,872	69,581,904	58,130,038
West Coast Lumbermen's Association:						
Total	2,518,075,539	2,591,918,916	2,609,191,386	2,849,175,805	2,404,068,474	2,671,411,160
Week (120 mills)	82,491,840	107,563,744	83,786,950	113,303,289	83,871,430	80,793,221
Western Pine Manufacturers' Ass'n:						
Total	727,415,000	676,898,000	657,956,000	688,035,000	631,250,000	637,800,000
Week (36 mills)	32,710,000	39,165,000	23,830,000	27,172,000	22,925,000	20,375,000
California Redwood Association:						
Total	233,812,000	226,957,000	186,908,000	239,202,000	182,755,000	247,514,000
Week (15 mills)	9,339,000	11,263,000	6,093,000	8,203,000	6,421,000	7,088,000
North Carolina Pine Association:						
Total	204,298,209	238,823,615	204,621,076	254,714,783	171,549,855	201,533,662
Week (37 mills)	8,236,496	7,337,670	7,673,932	7,690,049	6,324,813	5,206,210
Northern Hemlock and Hardwood:						
(Softwood) Total	63,277,000	65,473,000	61,034,000	69,045,000	48,807,000	63,757,000
Week (12 mills)	1,093,000	1,988,000	1,263,000	1,685,000	477,000	1,224,000
Northern Pine Manufacturers' Ass'n:						
Total	227,295,000	249,488,800	212,363,300	218,151,700	219,942,000	192,493,900
Week (9 mills)	11,623,600	14,304,800	7,596,400	8,809,100	6,571,000	5,642,000
General Total for 26 weeks:						
(Softwood)	5,988,789,250	5,993,559,795	5,916,830,459	6,372,060,782	5,551,860,360	5,971,513,168
Northern Hemlock and Hardwood:						
(Hardwood) (26 weeks)	123,990,000	86,363,000	82,121,000	75,596,000	74,312,000	69,889,000
California White and Sugar Pine:						
(26 weeks)	387,423,000*	259,366,887	328,349,000*	238,249,310	376,204,000*	196,764,147
General Total for week	217,512,993	259,366,887	201,538,954		179,191,469	

*Revised figures for 26 weeks.

Satisfactory Business in Common Brick.

In its current monthly digest of conditions in the industry the Common Brick Manufacturers' Association of America states that the same uneven distribution of business prevails as existed last month. It says:

"Making allowance for the fact that there is a variation in the number of firms reporting this month, the common-brick industry reports that it has 13 per cent more orders on its books than a month ago. The actual shipments of brick from the yards during the month of May show an increase of almost 6 per cent over the preceding month. At the same time the stocks of brick on hand increased 3 per cent and the brick manufactured to the point of placing them in the kiln and burning them show an increase of 24 per cent."

"It may be said, therefore, that the business done during the past month has been very satisfactory, and the outlook is good. Only three manufacturers out of ninety-eight firms reporting state that the immediate prospects for business are 'bad.' Eight feel that the outlook is 'poor,' while 57 express their conviction that prospects are either 'fair' or 'good'."

Big Timber Deal in Mississippi—35,000 Acres Change Hands.

Zama, Miss.—A large timber transaction has recently been consummated here by the W. P. Brown & Sons Lumber Co. of Louisville, Ky., in the purchase of 35,000 acres of virgin timber from the Bollinger-Franklin Lumber Co. The purchase also includes a double band mill of 100,000 feet daily capacity, planing mill, sheds for rough and finished stock, six dry kilns, re-saws and other equipment and about 40 miles of standard gauge railroad, including the Kosciusko & Southeastern Railroad operating about 20 miles of line. It is stated that approximately 60 per cent of the timber is hardwood.

In addition to timber and mill equipment, the transfer includes a town-site containing 300 homes for workers, stores, amusement hall and picture theater, Y. M. C. A. building, churches and schools.

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TEXTILE

Prosperity in German Textile Mills.

A Berlin dispatch to the New York Journal of Commerce says that the textile industry in Germany is at present booming.

"Many mills," says this dispatch, "have sufficient orders to last until the end of the year, and the last labor union's report shows that only eight per thousand of registered textile workers are unemployed. * * * The leading textile manufacturer, George Muller, states that the Alsace mills have sold their output to Germany until next winter, and that France, Belgium, Czechoslovakia and England have still large German orders. Swiss embroidery concerns have increased their output, specially for Germany, and the Dutch are selling back to Germany at her present high prices, goods which they bought cheaply from her during the era of exchange dumping. * * * Dr. Schacht's Gold Discount Bank has since its foundation advanced over £5,000,000 to importers, and though according to the bank's rules these advances are given only to importers of such necessary raw materials as will be re-exported in manufactured form, the effect of the measure is to relieve the whole exchange market. * * * The textile boom is undoubtedly due to the fact that Germans have almost regained their normal pre-war buying power, while the supply of goods is relatively small. * * * The conclusion to be drawn from these figures is that even if, as is likely, the present home boom ends and is replaced by average buying, a further decline in imports of raw textiles, including American cotton, is not likely. As soon as normal prices return export on a large scale will be resumed, and the necessary raw materials will have to be imported."

This profitable condition of the textile industry of Germany is in striking contrast with the present conditions in the textile industry of Great Britain and the United States.

Hosiery Mills to Increase Stock.

Anderson, S. C.—Stockholders of the Anderson Hosiery Mills will meet here on July 28 for the purpose of increasing the capital stock of the company from \$35,000 to \$75,000 and to issue \$40,000 of preferred stock. This company operates 72 latch-needle knitting machines, 8 ribbers, 12 loopers, dyeing, bleaching and finishing equipment for the production of women's seamless hosiery, seamless half-hose and cotton and wool heather hose for men and women. C. Gadsden Sayre is president and treasurer, and E. U. Shealey is vice-president and secretary.

Plan to Build Weave Shed.

Gibsonville, N. C.—Plans are being prepared by J. E. Sirrine & Co., Greenville, S. C., for a new weave shed and rearrangement of present machinery. The shed will be 192 by 228 feet, of standard daylight construction. New broad automatic looms will replace the majority of old looms in the present building, all machinery to be rearranged and additional preparatory machinery to be added. The present mechanical drive will be replaced by motor drive.

New \$250,000 Textile Plant for Whitehall.

Whitehall, Ga.—Interests represented by Robert White and brothers will soon begin the erection of a building to house a new textile plant to consist of bleachery, dye and loom mill. It is planned to install 100 looms at first and increase as demand justifies. The initial outlay is estimated at \$250,000. Products of the plant will be goods for making crinkled bed spreads, checked pajamas, etc.

MECHANICAL

A Safety Cistern Top.

The cistern top illustrated herewith possesses the advantages of being locked with a padlock and of quickly operated mechanism which prevents the lid from being removed. This affords protection to children who might otherwise fall into a cistern, yet the top can be quickly and easily taken off when it is necessary to open the cistern.

It is also to be observed that this cover can be used on coal holes or any other ground opening. It can also be set in the foundation of a house so that the owner, if he cares to do so, can let his coal dealer have a key to open it and deliver coal without disturbing the occupants of the house by calling upon them to open the coal hole. The top is also available for cesspools, etc.

Of its value as a cistern top it is remarked that it insures clean cistern water and it may save life. The opening is 20 inches in diameter. Measurement, 27 inches over all.

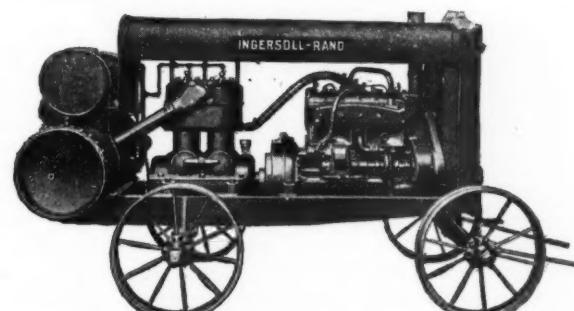
The H. W. Clark Company, Mattoon, Ill., is the manufacturer of this device, which is comparatively inexpensive. It is known as the Yaeche cistern top.



CISTERN TOP AS APPLIED.

Small Portable Air Compressor.

Since the advent of the portable air compressor and the resulting widespread demand for compressed-air-operated labor-aiding devices for use on out-of-door jobs, the need for a small, moderately-priced portable compressor of really modern design has been often felt. Now, the Ingersoll-Rand Company, 11 Broadway, New York, is meeting this demand



COMPRESSOR EQUIPPED WITH STEEL WHEELS.

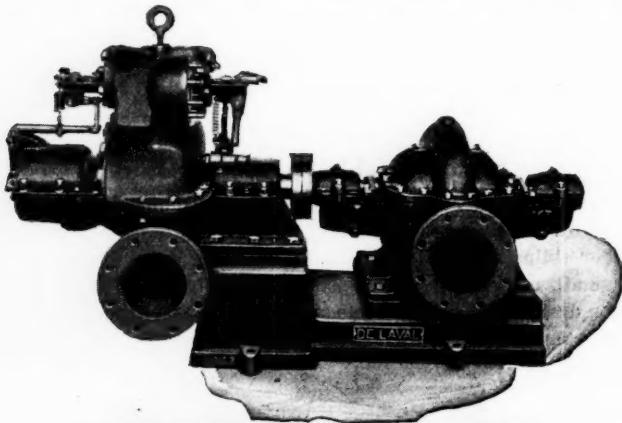
with a smaller portable compressor of its new 4½ by 4-inch Type Twenty. This compressor, which is illustrated herewith, has a piston displacement of 60 cubic feet per minute and it is built along the same lines as the larger Type Twenty portable compressors. All of the proven features of the larger units are retained; for instance, duplex, vertical compressor, direct connected to a four-cylinder, four-cycle, tractor type gasoline engine; enclosed construction; circulating water cooling system for engine and compressor with sectionalized radiator, fan and pump; compressor regulator and engine control for reducing speed during unloaded periods; one-piece cast-steel frame; sheet-steel roof and removable side doors.

It is stated by the builders that this new machine is com-

pact and steady; each part is accessible; anyone can operate the compressor, and it is easy to move. It opens up a new field, and its moderate cost makes it possible and profitable to use labor-aiding compressed-air equipment for work which was formerly considered too small to warrant the purchase of a compressor. It will meet the requirements of cities, towns and other communities and of privately owned public utilities. It can supply air for operating paving breakers, rock drills and other tools for road and paving repairs, for digging trenches for pipes, etc., for calking pipe and other purposes. It also has a field of usefulness in industrial plants that have central stationary air compressors, as, it is claimed, it will more than pay for itself when used for erection and repair work and for supplying air for odd jobs of painting, cleaning, etc. It may be provided with either of several styles of mountings—steel wheels and axles, wooden artillery wheels with solid rubber tires and steel axles, on a Ford truck, and on skids for mounting in a car or truck. It is available for either gasoline or electric motor drive.

New Velocity Stage Turbine.

Steam pressures in large central power stations and also in many industrial plants have lately risen extremely high and super-heat temperatures have been carried as high as materials of construction will permit. This, according to the DeLaval Steam Turbine Company of Trenton, N. J., has made necessary the redesigning of all kinds of equipment, and



TURBINE-DRIVEN CENTRIFUGAL PUMP.

particularly the smaller steam turbines used for driving boiler feed pumps, circulating pumps and other apparatus.

A turbine designed and built by these manufacturers to meet the exacting new requirements is shown in the accompanying picture. It has been possible in the working out of this design to combine several other desirable features, including a method of supporting the turbine at one point close to the shaft so that the turbine casing is free to expand in all directions without affecting the alignment; the confining of high temperatures to the casing cover so that heat is not transmitted to the bearings and oil wells and no water cooling is necessary; and the incorporating of the steam inlet nozzle, governor valve body and steam chest in the steel casing cover, thus eliminating cross-over connections and reducing steam friction and heat radiating surfaces.

As the turbine is of the pure impulse type, the steam is completely expanded to exhaust pressure upon leaving the nozzles, and close clearances between nozzles, wheel buckets and guide vanes are unnecessary, either axially or radially. Where considerable changes in load or in steam pressures are anticipated, some of the nozzles can be provided with hand-operated valves, so that by cutting nozzles in or out it is possible to maintain a high average pressure in the steam chest, with correspondingly high efficiency over a wide range

of capacity. The wheel has two rows of buckets, and shroud strips riveted on the outer ends of the buckets provide rigidity and prevent spilling of steam. The wheel is a high-grade steel forging with an ample hub, and it is mounted on a heavy, rigid forged steel shaft, upon which it is held in position by two heavy locking nuts. All parts entering into the construction of this turbine are made to limit gauges, this insuring absolute interchangeability of parts.

These turbines range in sizes from 1 to 1000 horsepower.

Necessity for Lower Coal Production Costs.

Beckley, W. Va., June 30.—Chronic American conditions of high costs of living and production in the coal industry and other industries that contribute to the retail costs of coal are blamed by Justus Collins of Charleston, one of the largest coal operators in the country, for present depreciation in the trade. He added that the European markets for American coal have been permanently lost unless production costs can be lowered to a point where they can compete with British figures. At present he sees no hope of bringing the soft-coal production back to normal, except at the expense of the union fields.

"If labor in the bituminous fields could come to see this point," he said, "and would accept lower wages, we soon would have every soft-coal mine in this district running full time and the miners would have steady work, even though the wages might not reach the standard we have tried to maintain when the market was better."

Industrial conditions in the United States are blamed by Mr. Colline to a large extent for the present depression, but he sees little hope of improvement in the foreign business, due to the ruinous competition of British mines, the loss of trade in the American merchant marine and the resultant falling off in the demand for bunker coal and the fact the entire American carrying system is at a peak of prohibitive costs.

Leaves Federal Reserve to Go With Investment Securities Company.

Dinsmore W. Hume, Federal Director of Savings, in charge of market development and sale of Government securities in the Eleventh Federal Reserve District, resigned July 1, according to a report from Dallas, Tex., to become connected with the Investment Securities Company of Texas in that city as director of sales and supervisor of its advertising and public relations department, of which company T. P. Junkin is president. Other officers are T. J. Bettes, vice-president and treasurer; E. R. Brown of Dallas; J. E. Jarratt of San Antonio; and E. A. Peden of Houston, vice-president; W. H. Coke, secretary; directors also including J. C. Duke, Frank E. Austin, R. E. Burt, Alex. S. Coke, P. R. Freeman, J. K. Hexter, George S. Watson and R. J. Windrow of Dallas.

In making announcement of Mr. Hume's new connection, President Junkin is quoted as saying that the company will work for the conservative but intensive development of Texas and the Southwest, that Texas funds and those of the Southwest may be safely and constructively employed and the investing public productively and safely served, and it feels that it is fortunate to have secured Mr. Hume's services.

Contract for Bradenton Power House.

Bradenton, Fla.—Contract has been awarded to O. P. Woodcock, Jacksonville, Fla., for the erection of the proposed new power-house here for the Southern Utilities Co., whose main office is at Palatka. The building will be 54 by 80 feet, forty-nine feet high, of Georgia red brick, metal sash and wire glass, and will be equipped with two 308-horsepower boilers made by the Edge Moor Iron Co., Edge Moor, Del., 1000-kilowatt Westinghouse turbine and one 300-kilowatt engine unit. T. D. Hayes is manager of the plant here.

CONSTRUCTION DEPARTMENT

EXPLANATORY

Additional information is published about all enterprises mentioned in this department as soon as such data can be obtained.

An asterisk (*) following an item indicates that the enterprise has been reported in a preceding issue.

DAILY BULLETIN

The Daily Bulletin is published every business day to enable its subscribers to follow up promptly the industrial, commercial, railroad, financial, building and general business development of the South and Southwest. To machinery manufacturers and dealers, contractors, engineers, and others who require daily information of every new enterprise organized and details about important additions to enterprises already established, the Daily Bulletin is invaluable. Subscription price, \$20.00 a year.

Bridges, Culverts and Viaducts

Ala., Montgomery—City plans building 60-ft. wide concrete bridge across Central of Georgia Ry. track at Highland Ave. and paving Highland Ave. from end to end; W. A. Gunter, Mayor.

Ala., Selma—State Highway Comm., Montgomery, Ala., received low bid from Rouse & Cooper, Selma, at \$16,875 to repair and paint bridge across Alabama River, at Selma, on Dixie Highway.*

D. C., Washington—Dist. Commrs. let contract to Chas. H. Tompkins Co., 1612 Park Road N. W., Washington, for concrete girder bridge between Hunt Place and Dean Ave., 50-ft. span, 18-ft. roadway, concrete abutments and wing walls.*

Fla., Bartow—Details under Road and Street Construction.

Fla., Fort Lauderdale—City let contract to Markle & Perkins for additional dockage on New River at O'Neil Ave. and for bridge across Himmarshee canal on Valentine Ave. Address The Mayor.

Fla., Fort Pierce—City plans building concrete bridges over canal; voted \$20,000 bonds. Address The Mayor.

Fla., Sarasota—City and Sarasota Heights plan building bridge over Hudson Bayou; replace one-way wooden structure. Address The Mayor.

Fla., Sebring—Highlands County let contract for 6 bridges as follows: To Otis Hardin, Okeechobee City, for 600-ft. bridge over Arbuckle Creek, on Bessenger road; to F. E. Platt and W. F. Garner, both Arcadia, for one 100-ft. bridge, one 300-ft. bridge and two 30-ft. bridges on Lake Annie road.

Fla., St. Petersburg—City Comm. let contract to St. Petersburg Concrete Construction Co. at \$10,400 for concrete bridge across Bear Creek at Central Ave. and Fifty-ninth St.*

Ky., Burnside—Southern Ry. Co., J. B. Akers, Ch. Engr., M. W. & Structure, Charlotte, N. C., plans building truss bridge at Burnside over Cumberland River; cost over \$100,000.

Md., Baltimore—Details under Road and Street Construction.

Miss., Macon—Noxubee County will receive bids this week for set of brick and cement culverts over ditch on Macon and Memphis road, about 3 mi. east of Macon, near Martin place; John A. Tyson, Chancery Clk.

Missouri—State Highway Dept., Jefferson City, Mo., let contracts for 4 bridges as follows: Butler County, over Cane Creek, Public Works Construction Co., Century Bldg., St. Louis, \$18,441; Howell County, over Howell Creek, J. G. Nevels & Masoner, Willow Springs, Mo., \$4688; Monroe County, repair 2 bridges, St. Louis Construction Co., and Newton Construction Co., California, Mo.

Missouri—State Highway Dept., Jefferson

City, Mo., will build 2 bridges. Details under Road and Street Construction.

Mo., Springfield—Green County Court plans building bridge across Pickerel Creek, 4 mi. southwest of Bois D'Arc. Address County Commsr.

S. C., Allendale—Details under Road and Street Construction.

S. C., Greenwood—Details under Road and Street Construction.

Tex., La Grange—Fayette County let contract to Austin Bridge Co., 1813 Clarence St., Dallas, Tex., at \$268,061 for 1288-ft. concrete and steel bridge across Colorado River on State Highway No. 3-B, three 205-ft. steel spans; 222-ft. and 444-ft. concrete approaches; 2-in. limestone rock asphalt roadway.*

Tex., Laredo—Webb County will receive bids July 29 for four bridges and one culvert on State Highway No. 12-A, as follows: 72-ft. reinforced concrete bridge, superstructure only, two 36-ft. girder spans; 104-ft. girder bridge complete, four 26-ft. girder spans; reinforced concrete box culvert, 5-ft.x5-ft.x 36-ft.; reinforced concrete slab bridge complete, 20-ft. clear span; reinforced concrete girder bridge, complete, five 26-ft. girder spans; A. Winslow, County Judge.

Tex., Smithville—State Highway Dept., Austin, Tex., will receive bids July 23 to furnish and place new floor, paint floor beams and stringers, also bituminous paving and metal traffic treads on 800-ft. structure across Colorado River at Smithville, 58,600 ft. creosoted timber floor in place; G. G. Wilkline Bridge Engr., State Highway Dept.; Capt. A. Schlaflit, Div. Engr., La Grange.

Canning and Packing Plants

Fla., Haskell—R. W. Burch of Plant City has acquired machinery and equipment of Plant City Packing Co. and will erect canning plant.

La., Buras—Buras Union Packing Co., capital \$10,000, incorporated with Ernest F. Cognevichm, Pres.; Morris Broussard, Sec.

Mo., Bolivar—Bolivar Canning Co. let contract to Wm. R. Stafford to erect canning plant.*

Clayworking Plants

Fla., Seffner—Ritter & Setzer, owners of Plant City Brick Co., Plant City, have acquired site for brick plant, also storage and shipping sheds and warehouse.

Coal Mines and Coke Ovens

Tenn., Knoxville—Blue Goose Coal Co., capital \$75,000, incorporated by C. E. Peterson, 3222 E. 5th Ave.; L. A. Bible and C. A. Bowen.

Tenn., Whiteside—Marion Coal Mining Co., H. L. Cory, Pres., Chattanooga, Tenn., has 2500 acres coal under development, present daily output 200 tons.*

Va., Lynchburg—Sovereign Coal Co., Inc., increased capital from \$150,000 to \$300,000.

W. Va., Cedar Grove—Tompkins Fuel Co., Harold P. Tompkins, Pres., Charleston National Bank Bldg., has 900 acres coal land under development, daily output 600 to 750 tons; will receive bids on mining machinery from July 15 to July 30, including motor generator set, electric locomotive, short wall cutting machine, lumber, etc.; R. B. Bradley, Const. Engr. (See Machinery Wanted—Generator Set; Locomotive (Storage Battery); Coal Mining Machines; Lumber.)*

Concrete and Cement Plants

Fla., West Palm Beach—Palm Beach Concrete Co. incorporated with Virgil D. Chandler, Pres.; Sarah B. Baker, Sec.

Va., Norfolk—Virginia Portland Cement Corp., H. Struckman, Pres., are having specification and drawings made for plant, including laboratory and mill office building, estimated cost \$1,500,000; annual capacity of plant about 4,000,000 sacks of Southern Star Portland cement.*

Va., Roanoke—Roanoke Concrete Pipe Co., capital \$100,000, chartered with G. D. Shippelt, Pres.; C. F. Cocke, Sec.

Cotton Compress and Gins

La., Oakdale—Oakdale Cotton Gin Co. will install additional machinery to include new press, saws, engine house, etc.

N. C., Jackson—Jackson Ginning Co., capital \$25,000, incorporated by E. W. Lewis, L. L. Taylor and J. M. Archer.

Okl., Davidson—Chickasha Cotton Oil Co., North Third St., Chickasha, Okla., will erect cotton gin with daily capacity 50 bales; brick and frame, 24x72, 20x50, 29x40, 12x16 and 28x30 ft.; one story, galvanized roof; will install four 80-saw gins and 125 h.p. engine; cost of equipment \$16,000; will construct with own forces; Continental Cotton Gin Co., Columbus, Ga., machinery contrs.*

Tex., Adkins—Adkins Gin Co., capital \$20,000, incorporated by Hugo Kott, T. H. Abbott and W. M. Wiseman.

Tex., Beaumont—W. F. Treadway will erect cotton gin with daily capacity of 25 bales; 2 story, sheet iron; will install 2 Munger stands with double press; cost \$10,000; contract for equipment let to J. L. Means, 901 Turner St., Dallas, representing Continental Gin Co.

Tex., Hebronville—Edds & Acklen Gin Co., capital \$48,000, incorporated by Henry Edds, W. F. Acklen and Reuben Holbein.

Tex., Martinez—Martinez Gin Co., capital \$16,000, incorporated by Hugo Kott, T. H. Abbott and W. M. Wiseman.

Tex., Spur—Continental Oil & Cotton Co. reported to construct cotton compress.

Tex., Whitehouse—Troup Gin Co., Troup, Tex., has acquired plant and will install additional machinery.

Cottonseed-Oil Mills

Miss., Mound Bayou—Keystone Cotton Oil Co. incorporated by L. J. Martin, W. H. Hur-

dle and J. H. Harvey, all Memphis, Tenn., reported to have acquired plant of Mound Bayou Cotton Oil Co.

N. C. Gastonia—J. Flay Bess, Mgr. of Southern Cotton Oil Co., acquired cotton oil plant.

Drainage and Irrigation

Ky., Calhoun—J. C. Karr of Fort Wayne, Ind., has contract and begun work on the Sam Ferguson Drainage Project in McLean and Muhlenberg Counties, reclaiming approximately 17,268 acres.

Miss., Yazoo City—Yazoo County Commrs. contemplate erecting new drainage district, to be known as the Yazoo Drainage Dist., embracing about 317,000 acres land in Holmes, Humphreys and Yazoo Counties; estimated cost \$1,342,000; Elliott-Harman Engineering Co., Engrs., Bank of Commerce & Trust Bldg., Memphis, Tenn.

N. C., Concord—Board of Commrs. of Cabarrus County Drainage Dist. No. 6 will receive bids July 17 for 9½ mi. open ditch work, 265,000 cu. yds. excavation, reclaiming 1250 acres land; Will D. Alexander, Engr., Charlotte, N. C.

Electric Light and Power Plants

Fla., Bradenton—Southern Utilities Co., I. D. Hayes, Local Mgr., let contract to O. P. Woodcock, Duvall Bldg., Jacksonville, to furnish all labor and material and construct power house; 54x80x49 ft. high; Georgia red brick; number one metal sash, wire glass; 2 Edgemore 308-horsepower boilers; 1000 KW Westinghouse turbine and one 300 KW engine unit.*

Fla., Jacksonville—Board of County Commissioners approved lighting Atlantic Boulevard from S. Jacksonville to Neptune; cost about \$30,000; Dr. R. H. Carswell, Cummer's Mill, Chmn.

Fla., Lantana—Details under Miscellaneous Enterprises.

Fla., Palatka—City voted \$15,000 bonds for white way system. Address The Mayor.

Fla., Sarasota—Details under Land Developments.

La., Lafayette—Details under Water Works.

Fla., Sebring—City votes July 29 on \$135,000 bonds for extending and improving city light and water system. Address The Mayor.

Fla., St. Augustine—Details under Land Developments.

Fla., West Palm Beach—W. J. Conners of Buffalo, N. Y., and Palm Beach, Fla., plans lighting 60-mile road connecting Palm Beach with Okeechobee.

La., Lake Charles—Stone & Webster interests of Boston, Mass., have organized the Lake Charles Electric Co., Inc., capital \$1,000,000; U. A. Bell, Pres., Lake Charles; Wm. N. Sawyer, Sec., Boston, Mass.

Md., Baltimore—Details under Sewer Construction.

Miss., Tupelo—Mississippi Power Co., Jackson, Miss., lately noted having acquired power station, will construct power line from Tupelo to Verona, Shannon, Egypt and other points.

Mo., Waynesville—Central Missouri Power & Water Co., Kansas City, is having plans made by E. L. Williams of Clark E. Jacoby Engineering Co., Interstate Bldg., Kansas City, Mo., for development of water power project on Gasconade River, to supply power for lighting towns, houses and farms within radius of 100 miles plans at present call for construction of dam 95 ft. high, impounding water and forming lake 1 mile wide and 50 miles long; main power-

house will have 6 or 7 huge water turbines, each with capacity to deliver 7000 h.p. and each turbine operating an electrical generator of 5000 k.w. capacity.*

Okla., Mangum—Western Power and Gas Co., Oklahoma City, has renewed application for franchise.

S. C., Pickens—Commission of Public Works let contract to J. E. Sirrine & Co., Engrs., Greenville, S. C., to design new lighting system and to build transmission line from Easley to Pickens.

Tenn., Knoxville—Tennessee Electric Power Co. granted permission by City Board of Commrs. to acquire properties of Cumberland Power Co., Maryville Lighting Co., Madisonville Light and Power Co., Lenoir City Light and Power Co., Long Manufacturing Co. and Tellico River Lumber Co.

Tenn., Memphis—Memphis Power & Light Co. will not erect any addition to car barns, as lately noted.

Va., Harrisonburg—City will repair flood damage at hydro-electric plant on the Shenandoah River. Address The Mayor.

Fertilizer Plants

Fla., Tampa—Lyons Fertilizer Co., capital \$250,000, incorporated with Chas. W. Lyons, Pres.; W. L. Waring, Jr., Sec.

Va., Chincoteague—United Oil & Fertilizer Corp. chartered with Wm. A. Larner, Pres., Grand Central Terminal; Alexander A. Barber, Sec., both of New York.

Flour, Feed and Meal Mills

Ark., Paragould—Paragould Milling Co., will erect \$25,000 brick and tile building.

Mo., St. Joseph—St. Joseph Milling Co., capital \$160,000, incorporated by Jacob Ungerma, Joseph J. Dukes, Daniel P. Moore, 417 S. 11th St.

Foundry and Machine Plants

Ala., Mobile—Phoenix Machine Manufacturing Co., Madison St., capital \$250,000, incorporated with V. P. McCoy, Pres.; C. C. Constantine, Sec.-Treas.; will expend \$75,000 for new building and improvements.

Mo., St. Charles—The Putnam Die Co. increased capital from \$5000 to \$25,000.

Tex., Houston—Gulf Machinery Manufacturing Co., Inc. (lately noted incptd.) organized with G. W. Dicks, Pres.; Blake Dupree, Treas.; J. M. Hacker, Sec.; to manufacture patented band saw for cutting roll paper of any diameter without the use of large slitter; desirous of purchasing small band saw wheels, narrow saws, malleable cast hand wheels, worm gears and grooved pulleys, small sprockets and sprocket chains. (See Machinery Wanted—Machine Shop Tools).*

Gas and Oil Enterprises

Mo., St. Louis—St. Louis Oil Co., capital \$10,000, incorporated by Ida H. Stocke, Lambert E. Walther, 1105 National Bank of Commerce Bldg., and others.

Okla., Ardmore—Shaner Drilling Co., capital \$50,000, incorporated by F. A. Shaner, W. S. Kahl and W. L. Strange.

Okla., Tulsa—Deer Creek Gasoline Co., capital \$25,000, incorporated by D. E. Foster, 243 Lynch Bldg., Tulsa; R. C. Jones, Cushing, Okla., and others.

Tenn., Chattanooga—Chattanooga Gas Co., A. J. Goss, Mgr., will construct 6-in. gas main on Main St. to serve Highland Park.

Tenn., Fayetteville—Young Oil Co. increased capital from \$15,000 to \$25,000.

Tex., Orange—A. C. White, Mgr. of Sycamore Oil Co., is preparing preliminary work for addition to oil refinery of Seaboard Oil &

Refinery Co.

Tex., Terrell—Free State Oil Co., capital \$41,000, incorporated by E. R. Newby, R. R. Holmes and W. A. Buttram.

Tex., Vernon—Teapot Dome Oil Co., capital \$30,000, incorporated by L. K. Johnston, R. H. Coffeen and A. P. Peck.

W. Va., Wheeling—Details under Land Developments.

Ice and Cold-Storage Plants

Fla., Miami—Oliver Ice Co., L. C. Oliver, Pres., N. W. 14th St., contemplates erecting 2000-ton ice storage room; wants data and prices on construction of same. (See Machinery Wanted—Ice Storage.)

Fla., Midville—J. H. Higdon reported to establish ice and cold storage plant.

S. C., Meggetts—Farmers' Ice & Canning Co., Inc., capital \$50,000, chartered with W. S. Harris, Vice-Pres.; James L. Wilson, Sec.

Tex., Nixon—Cuero Packing Co., Cuero; Tex., will erect \$20,000 cold storage plant.

Va., Orange—Virginian Northern Ice Corp., Samuel W. Fleming, Jr., Pres., changed name from Orange Coal & Ice Co., Inc.

Land Development

Ala., Anniston—City—J. L. Wilkie, Mayor, voted \$40,000 park bonds.*

Ala., Birmingham—Flexlume Realty Co. incorporated by B. P. Levie, Blevins and Omer Brasher, American Trust Bldg.

Ark., Fort Smith—Fort Smith Parks and Playgrounds Assn., H. W. Hussey, Sec. interested in development of golf course.

Ark., Pine Bluff—Farrelly Lake Plantation Co., capital \$100,000, incorporated with L. A. Black, Pres.; J. H. Boone, Sec.; will develop 640 acres of farm land.

Fla., Anna Marie—Gulf View Land Co., capital \$25,000, chartered with R. C. Fernald, Pres.; H. M. Hippler, Sec.

Fla., Bradenton—Palma Sola Corp., capital \$250,000, chartered with Edwin C. Barnes, Pres.; J. A. Frohock, Sec.

Fla., Cocoa—Brevard Holding Co., capital \$50,000, chartered with J. R. Anthony, Pres.; Albert L. McGlaun, Sec.

Fla., Daytona—Company organized with R. L. Smith, Pres., Daytona, Fla.; T. J. McReynolds, V.-P., Daytona Beach, Fla.; J. B. Kahn, Sec., Daytona, Fla., comprising communities of Ormond, Ormond Beach, Daytona, Daytona Beach and Seabreeze, has 3000-acre site on Halifax and Tomoka Rivers and will develop Sun City motion picture production center; 300 acres will be used for motion picture colony; plans include erection of administration building, library, clubhouse, hotel, auditorium, riding academy, swimming pool, park, riverside drive, etc.; studios to be constructed of coquina rock and Moorish design.

Fla., Eustis—Paradise Fernery, capital \$100,000, incorporated by David F. Johnson, Wm. M. Cathrae and others.

Fla., Fort Pierce—City voted \$40,000 bonds for acquisition and development of municipal park. Address The Mayor.*

Fla., Fort Lauderdale—Broward County Realty Board, capital \$15,000, incorporated with C. P. Weidling, Pres.; Will J. Reed, Sec.

Fla., Fort Pierce—White City Investment Co., capital \$10,000, chartered with Milton Bacharach, Pres.; Charlotte Bacharach, Sec.

Fla., Hallandale—F. A. Currie will develop Sunset Park for subdivision.

Fla., Jacksonville—Perry Realty Co., 313 W Forsyth St., incorporated by F. S. Perry,

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Camilla, Ga.; Lloyd E. Jones and Geo. M. Perry.

Fla., Jacksonville—All-Florida Realty Co., capital \$50,000, chartered with Herman G. Meister, Pres.; W. R. Hamilton, Sec.

Fla., Jacksonville—Florida Homes, Inc., capital \$10,000, chartered with Raymond C. Turck, Pres., 1535 Riverside Ave.; Walter H. Donovan, Sec.

Fla., Key West—Florida Keys Realty Co., capital \$60,000, incorporated with Carl E. Aubuchon, Pres.; E. W. Bebinger, Sec.

Fla., Kissimmee—Osceola Development Co., chartered with W. W. Edwards, Pres.; Ellis F. Davis, Sec.

Fla., Miami—East Florida Realty Co., capital \$10,000, J. C. Secord, Pres., 2 Halycon Arcade, will develop 22 acres on Dixie Highway for subdivision; construct roads, etc.; J. I. Rhine, Archt., Fort Lauderdale, Fla.; A. G. Fireh, Gen. Contr., Coral Gables, Fla.; Wm. Deming, Landscape Archt., Miami, Fla.*

Fla., Miami—Dixie Land Corp., capital \$100,000, chartered with Emma S. Blain, Pres.; J. S. Blain, Sec., 211 N. E. First Ave.

Fla., Miami—Associated Realty Corp., capital \$100,000, chartered with Louise Zinkhan, Pres.; R. W. Macey, Sec.-Treas., Professional Bldg.

Fla., Miami—Oceanic Development Co., capital \$100,000, incorporated with E. C. Gale, Pres.; J. E. T. Hunter, Sec.

Fla., Miami—G. W. Gable and Everett H. Pierson, 125 N. E. 1st St., have acquired and will develop 200 acres on Dixie Highway for subdivision.

Fla., Miami—Bay Vista Park Co., M. M. Hogan, Sales Mgr., let following contracts for improvements to subdivision: to J. F. Wigington for concrete curbs and gutters and 5-ft. sidewalks; to Collins Paving Co. for paving streets to width of 60 ft.; to Miami Landscape Co. for clearing ground and planting shrubbery; cost \$100,000.

Fla., Orlando—Persons & Hill, Inc., capital \$10,000, chartered with Geo. W. Persons, Pres.; J. Warren Hill, Sec., 18 Cheney place.

Fla., Orlando—Central Florida Development Co., capital \$500,000, organized by Walter W. Rose, Pres., Christ Bldg., to develop subdivision along Winter Park Rd.; will install asphalt streets, sidewalks, lights, water, etc.; A. D. Taylor, Landscape Archt., 1900 Euclid Ave., Cleveland, O.

Fla., Palatka—City voted \$60,000 bonds for park and golf course. Address The Mayor.

Fla., Palm City—Palm City Fruit & Nursery Co., capital \$25,000, chartered with E. M. Cleveland, Pres.; P. R. McCray, Sec.

Fla., Sarasota—Harrison-White Corp., capital \$25,000, chartered with W. G. Harrison, Pres.; C. B. Fairbanks, Sec.

Fla., Sarasota—Siesta Land Co., capital \$250,000, incorporated with Lewis Combs, Pres.; A. O. Morton and A. L. Joiner.

Fla., Sarasota—Helen Brooks Smith, Inc., capital \$50,000, incorporated with Helen Brooks Smith, Pres.; Cary B. Fish, Sec.

Fla., Sarasota—Charles Conrad, Wayne, Pa., has acquired aviation field east of Sarasota and additional land at Indian Beach and will develop for subdivision; will install pavements, water, sewer, lights, telephones, etc.; Floyd Florist Co., Sarasota, landscape Archt.

Fla., Sebring—City votes July 29 on \$45,000 bonds for municipal golf course and park. Address The Mayor.

Fla., St. Augustine—H. B. Bonfield and Verne E. Johnson, Alhambra Hotel, will develop 148 acres of land 12 miles south of St. Augustine for townsite and farms; install streets, park, lake, electric lights, septic tanks, etc.*

Fla., St. Cloud—The Shafer Land Company of Florida, Inc., capital \$150,000, chartered with Geo. M. Rickard, Pres.; C. L. Morgan, Sec.; will develop 5,720 acres of land three miles east of St. Cloud containing 5 lakes for subdivision and townsite; with roads and streets and eventually a water and light system.

Fla., St. Cloud—Osceola Banana Farms, capital \$25,000; chartered with M. A. Hood, Pres.; Wm. Landis, Sec.

Fla., St. Petersburg—W. B. Horne, Inc., capital \$50,000, chartered with W. B. Horne, Pres., 302 Hall Bldg.; Paul S. L. Hubbard, Sec.

Fla., St. Petersburg—Brunson & Gray, capital \$600,000, incorporated with A. S. Brunson, Pres., 820½ Central Ave.; G. T. Reynolds, Sec.

Fla., Tampa—Fowlers Properties, Inc., capital \$100,000, chartered with M. C. Fowler, Pres.; R. L. Smart, Sec.

Fla., Tampa—Van Houten Development Co., capital \$35,000, chartered with D. W. Swarts, Pres.; H. E. Chapin, Sec.

Fla., Tampa—Hamlett & Perry Bros., Inc., capital \$250,000, chartered with Clyde Perry, Pres.; Frank R. Hamlett, Sec.-Treas.

Fla., West Palm Beach—Realty Development Corp., capital \$50,000, chartered with W. M. Owens, Pres.; H. G. Price, Sec.

Fla., Atlanta—Wey-Con Co., Inc., John M. Ponder, 807 Grant Bldg., will develop 230 acres on Cascade Heights as subdivision; will construct boulevard 3 miles long, 60 ft. wide; W. J. Nally, Engr., Austell Bldg.

Fla., Chickamauga—Don Harris, E. H. Wyatt and C. Dunaway interested in development of subdivision.

La., Baton Rouge—Barnes-Whitaker Realty Co., capital \$60,000, incorporated with W. Preston Barnes, Jr., Pres., 112 5th St.; John R. Whitaker, Sec., Delphine Place.

Md., Baltimore—Caughy & Co., 220 E. Lexington St., capital \$25,000, incorporated by Frank J. Caughy, Wm. T. O'Connell, Herman A. John.

Md., Baltimore—Franklin Building Co., 404 New Amsterdam Bldg., capital \$25,000, incorporated by Marie Koch, Soren E. Webber, Alfred T. Edel.

Md., Baltimore—Dumbarton Corporation, Light and Redwood Sts., lately noted incorporated with \$250,000 capital, L. Edwin Goldman, Pres., has 75 acres on Park Heights Ave. and will develop for subdivision; landscape work in charge of R. Brook Maxwell, Landscape Archt.*

Miss., Tupelo—Lee Land & Investment Co., incorporated by J. M. Thomas, S. J. High and V. S. Whitesides.

Mo., Ferguson—Ferguson Realty Co. incorporated by Ernest R. Dorrr, Monte O. Carroll, Jr., and others.

Mo., St. Louis—Allman Realty Co. incorporated by E. L. Harris, C. E. Herriott, G. W. Buckner, D. W. Bowles, 1311 A. Market St.

Mo., St. Louis—Olympia Realty Co., incorporated by Geo. B. Gerards, 1202 Kings Highway; R. R. Roehrig, 3230a Wyoming St.; John Kekeris, 5174 Enright Ave.

Mo., St. Louis—Progressive Realty & Finance Co. incorporated by A. M. Levy, 1309 Biddle St., S. Klarsfield, H. Schachter, and others.

Mo., St. Louis—Fore Realty Co., capital \$28,000, incorporated by Tom E. Katsimigle, Bill C. Fotinopoulos and others.

N. C., Charlotte—Piedmont Land Co., capital \$50,000, incorporated by Theodore R. Fogelman, T. R. Garrison, 1405 S. Tryon St., and C. F. Carter.

N. C., Greensboro—J. E. Latham, Dixie Bldg., has 200 acres of land in northwestern part of city; will give 72 acres to city for development of Latham Park, remainder to be developed as subdivision; will install roads and streets, sewer and water extension.

Ola., Cherokee—Rotary Club, S. C. Timmons, Pres., interested in establishment of municipal park; install playground equipment, build driveways, tennis courts, swimming pool, etc.

S. C., Spartanburg—C. H. Henry, Oakland Ave., has organized Brookwood Realty Co., and is developing Brookwood Terrace.

S. C., Spartanburg — R. Burton Hicks, Judge of County Probate Court and associates will develop residential colony; install sewers, etc.

Tenn., Nashville—Greater Nashville Realty Co., capital \$50,000, incorporated by W. M. Schardt, 210 Eighth Ave., S.; A. K. Blumfeld and John L. Draper.

Tex., Dallas—J. F. Parks will develop 20 acres for subdivision; will install gas and electric light systems; sewer system, water works, roads and streets; Koch & Fowler, Landscape Archts. and Const. Engrs., Central Bank Bldg.*

Tex., San Antonio—Richey & Casey, 1321 N. St. Mary's St., and Etheridge Bros., interested in development of 8200 acres of land; will build 60-ft. dam to form lake, erect country club, etc.

Va., Norfolk—Maple Apartments, Inc., capital \$50,000, chartered with Michael Schloss, Pres., Baltimore, Md.; Joseph Liebman, Sec., 900 Liberty St., Norfolk.

Va., Norfolk—Pablo Corp. chartered with L. T. Dobbie, Pres., 914 Graydon Ave.; S. C. Murphy, Sec.

Va., Richmond—Bryan Park Realty Corp., capital \$100,000, incorporated by R. F. Pettis, John H. Heinz, Sam B. Witt, Times-Dispatch Bldg.

Va., Richmond — Cedar-Cliff Sales Corp., capital \$50,000, incorporated with Charles F. Gillette, Pres., 508 E. Franklin St.

W. Va., Wheeling—Oakmont Improvement Co., C. H. Dowler, Pres., let contract to H. D. Patterson Co., Pittsburgh, Pa., for concrete roadways, curbing, sidewalks, sewer, water and gas for Oakmont addition subdivision.*

Lumber Enterprises

Fla., Clearwater—Landess Lumber & Millwork Co., capital \$100,000, incorporated with W. S. Landess, Pres.; John Russell, Sec.*

Fla., Cody—Gundenrath Lumber Co., capital \$100,000, chartered with J. Gundenrath, Pres.; J. B. Gundenrath, Sec.

Fla., Dunnelton—Mississippi Lumber Co., capital \$25,000, chartered with A. A. Lott, Pres.; E. R. Jenkins, Sec.

Fla., Leesburg—Barcus Lumber Co., capital \$25,000, chartered with H. E. Barcus, Pres.; T. G. Futch, Sec.

Fla., West Palm Beach—Palm Beach Mill Work Co., capital \$50,000, chartered with Z. C. Grant, Pres.; M. E. Bernheisel, Sec.

Ga., Augusta—Blythe Lumber Co., capital \$50,000, incorporated by L. H. Turner, 202 Greene S.; E. B. Reibile and J. E. Templeton.

Miss., Purvis—Forrest Lumber Co., capital \$125,000, incorporated by D. W. Slay, F. H. Jordan and T. W. Davis; will erect planing mill and dry kiln.

N. C., Shelby—Thompson Lumber Co. is rebuilding plant, burned at loss of \$50,000.*

Tenn., Wartrace—Wartrace Lumber & Manufacturing Co., capital \$10,000, incorporated by R. N. Phillips, W. B. Morgan and Paul Parrot.

Tex., Call—Kirby Lumber Co., Houston, let contract for double band mill with resaw, including dry kilns, planer, sheds, commissary and all other modern equipment; daily output 100,000 ft.

Tex., Corsicana—The Clopton Planing Mill Co., 213 E. Fourth St., reported to have let contract for erection of \$75,000 planing mill.

Tex., Nocona—Nocona Lumber Co., capital \$12,000, incorporated by P. O. Leslie, A. Y. and G. E. Leslie.

W. Va., Charleston—Lobnitz Lumber Co., Washington and Kanawha St., increased capital from \$50,000 to \$100,000.

Mining

Ala., Heflin—Starr Mica Co., capital \$10,000, incorporated by John M. Zeeman, G. and I. Cohn.

Ala., Russellville—Foster & Creighton Co., Nashville, Tenn., will operate quarry at Rockwood, Ala., of oolitic stone to be known as the Aday Quarry, with capacity of 10,000,000 cu. ft.; will build 20 mi. railroad track to Russellville, estimated cost \$50,000.

Ark., Rogers—Page Copper & Gold Mining Co., are installing additional machinery; develop gold mine.

Mo., Bloomfield—Halleck Hill Gravel Co., capital \$200,000, incorporated by E. E. McConnell, Bloomfield; G. G. Hill and C. M. Edwards, both Malden, Mo.

N. C., Glendon—Pyro Talc Co., capital \$250,000, incorporated with Charles P. King, Pres., 43 Tremont St., Boston; Henry W. Whitaker, Treas., 104 Ward St., Newton Center, Mass.; have taken over mineral properties of the W. E. Paschal property, comprising 160 acres, with dwelling and storage houses, power and mill house, and the Isaac Green property of six acres, both at Glendon; the reduction mill on the Paschal property has capacity of 300 tons weekly.

Okla., Enid—Mountain View Gravel Co., capital \$50,000, incorporated by Warren L. Watkins, Roderick A. McDonald and others.

Va., Norfolk—Richmond Sand & Gravel Co., capital \$150,000, organized with C. C. Colmus, Jr., Pres.; will develop sand and gravel deposits in Chesterfield County, Va.

W. Va., Bluefield—East River Stone Co., capital \$25,000, incorporated by W. L. Mustard, R. C. Sproles and W. B. Hicks.

Miscellaneous Construction

Ala., Florence—U. S. Engineer's let contract to Hardin-Tynes Manufacturing Co., Birmingham, Ala. for 58 sets of operating machinery for regulating gates at Wilson Dam.*

Fla., Bradenton—Dock—City, Whitney Curry, Mayor, contemplates building municipal dock, will probably vote on bond issue.

Fla., Daytona—Swimming Pool—Details under Land Developments.

Fla., Fort Pierce—Wharves and Incinerator—City voted \$10,000 bonds for seawall, \$20,000 bonds for incinerator, \$20,000 bonds for municipally owned wharves. Address The Mayor.

Fla., Palatka—Docks, etc.—City voted \$6000 bonds for municipal docks, wharves and warehouse. Address The Mayor.

Fla., Sebring—Seawall, etc.—City votes July 29 on \$50,000 bond for constructing seawall and municipal pier. Address The Mayor.

Ga., Savannah—Harbor Work, Major Dan I. Sultan, Dist. Engr., has \$694,000 made available by the U. S. War Dept. for work

during next ten months in the Savannah harbor, including the maintenance and improvement of existing river and harbor work as follows: Savannah River below Augusta, \$26,000; waterway between Beaufort, S. C., and St. John's River, \$68,000; Satilla River, \$2000; St. Mary's River in Georgia and Florida, \$1500; Atchafalaya River, \$12,000; Oconee River, \$13,000; Ocmulgee River, \$11,300, and Brunswick harbor, \$43,900.

N. C., Wilmington—Channel, etc.—Major Oscar O. Kuentz, Dist. Engr., has \$346,000 made available by the U. S. War Dept., for the maintenance and improvement of waterways in the eastern part of North Carolina as follows: For Neuse river, \$9000; Contentnea creek, \$1000; Trent river, \$4000; Beaufort harbor, \$7500; waterway connecting Core Sound and Beaufort harbor, \$3500; Morehead City harbor, \$5000; Cape Fear river at and below Wilmington, \$300,000; Cape Fear river above Wilmington, \$10,000; North East Cape Fear river, \$3500; Black river, \$2500.

Okla., Cherokee—Swimming Pool—Details under Land Developments.

S. C., Greenville—Incinerator—City let contract to Nye Odorless Crematory Co. of Macon, Ga., at \$38,500 to enlarge the Hudson St. plant, estimated capacity to be 60 tons every twenty-four hours; will also remove old incinerator on Richland Creek.

Tex., Corpus Christi—Dredging—U. S. Engineer Office, Galveston, Tex., will receive bids July 28 to dredge channel between Port Aransas and Corpus Christi.

Tex., Houston—Channel—U. S. District Engineer Office, Galveston, Tex. will receive bids about July 30 for completing the deepening and widening of the Houston ship channel, work includes dredging 3 mi. channel and removal of approximately 3,000,000 cu. yds. in Port Houston turning basin, estimated cost \$1,100,000; funds made available by War Department; Charles Crotty, Asst. Port Director, Houston.

Tex., Port Aransas—Dredging—U. S. Engineer Office, Galveston, Tex. will receive bids July 28 for dredging channel between Port Aransas and Corpus Christi. (See Machinery Wanted—Dredging)

Va., Norfolk—Steel Doors—The J. G. Wilson Corp., 11 E. Thirty-sixth St., New York City, are low bidders for 120 rolling steel doors for pier warehouses at municipal terminals.*

W. Va., Fairmont—Incinerator—City will vote in August on bonds for the contemplated erection of a new incinerator. Address The Mayor.

Miscellaneous Enterprises

Ala., Anniston—Woodruff Feed Co. incorporated by I. A. Holman, Fairy A. Woodruff and F. Z. Woodruff.

Ala., Anniston—Gulf State Pipe Corporation incorporated by Whitefield Clark, Neil P. Sterne and W. P. Ackers.

Ala., Birmingham—Birmingham Packing Co., 2314 N. 24th St., C. H. Ungerman, Pres.; contemplates enlarging plant, expending approximately \$50,000 on improvements; will probably increase capital to \$300,000.

Ala., Birmingham—Publishing—Martin L. Streit, Inc., capital \$10,000, chartered by Martin L. Streit, J. A. Metcalfe, 1242 18th Ave., South, and others.

Ark., Hot Springs—Nature's Mineral Products Co., capital \$100,000, incorporated with W. F. McCormick, Pres.; W. H. Harry, Sec., Citizens National Bank Bldg.

Ark., Stuttgart—O'Donnell-Draeger Rice Milling Co., lately noted incorporated with \$125,000 capital, A. B. O'Donnell, Pres., will erect rice mill with daily capacity of 8000 bushels.

Fla., Alton—Alton-Mayo Coco Cola Bottling Co., capital \$25,000, chartered with H. B. Farish, Pres.; J. W. Markham, Sec.

Fla., Coconut Grove—Red Bird Guano Co., capital \$10,000, chartered with Cornelius Christianity, Pres.; DeF. L. Christianity, Sec.

Fla., Daytona—Motion Picture Studio—Details under Land Developments.

Fla., Du Funis Springs—Camp Walton Boat Co., capital \$25,000, incorporated with W. B. Harbeson, Pres.; W. W. Harbeson, Sec.

Fla., Fort Pierce—Sunrise City Laundry, George R. Lord, Sec., Delaware and Third Ave. have plant; awarded contracts as follows: To Consolidated Engineering Co., Jacksonville, Fla. for motors; to Franklin F. Davis, Jacksonville for boilers.*

Fla., Jacksonville—Lapham Building Co., capital \$10,000, chartered with Merle W. Milam, Pres.; Robert R. Milam, Sec., Florida National Bank Bldg.

Fla., Lakeland—Ledger Publishing Co. (lately noted incptd., capital \$100,000) organized with S. H. Farabee, Pres.; Earl Mullen, Mgr.; has publishing plant, contracts awarded for equipment including linotypes, presses, type, etc.*

Fla., Little River—Grundy Ventilated Block Co., capital \$10,000, chartered with Edward R. Grundy, Pres.; Howard R. Grundy, Sec.

Fla., Miami—Pruett-Conklin Electrical Manufacturing Co., capital \$250,000, chartered with Marion Pruett, Pres.; Marion D. Sinclair, Sec.

Fla., Miami—American Engineering & Construction Co. of Chicago, Ill., reorganized with J. M. Deer, Pres.; H. D. Irwin, Sec.

Fla., Miami—R. M. Wells, has begun construction of \$14,000 mattress factory, at 13th St. and Miami Court, 1-story, 50x125-ft., concrete and tile.

Fla., Orlando—Farm Implements—Farm & Home Machinery Co., E. W. Yandre, Pres., jobbers of agricultural equipment and irrigation machinery; desires prices on pump and engine connections.

Fla., Lantana—Contracting—G. P. Lawrence, Box 74, contemplates building houses, electric light and water plant; desires correspondence with dealers in machinery and supplies. (See Machinery Wanted—Electric Light Plant Machinery, etc.)

Fla., Palatka—Fire Equipment—City voted \$25,000 bonds for purchase of fire equipment. Address The Mayor.

Fla., Sebring—N. C. Cash Construction Co. chartered with A. E. Withers, Pres.; E. W. Harshman, Sec.

Fla., St. Petersburg—Star Publishing Co., capital \$200,000, incorporated with M. C. Reade, Pres.; J. N. Ward, Sec., 647 1st St. N.

Fla., St. Petersburg—Wall Springs Lithia Water Co., capital \$20,000, chartered with W. McKee Kelly, Pres., 1924 Euclid Blvd.; Davis S. Walsh, Sec.

Fla., Tampa—Tampa Pine Products Co., capital \$50,000, chartered with L. J. Mounts, Pres.; V. K. Dundon, Sec.

Fla., Tampa—Deep Sea Canning Co., capital \$50,000, organized with U. J. Mashburn, Pres.; A. T. Stuart, Sec.-Treas.; will establish fish chowder cannery.

Fla., Vero—Hotel Vero, capital \$250,000, incorporated with T. J. Campbell, Pres.; John LeRoy Hutchinson, Sec.

Fla., West Palm Beach—Dixie Laundry Co., capital \$75,000, incorporated with C. R. Hieronymous, Pres.; D. L. Williams, Sec.

Fla., Winter Haven—H. L. Henderson Wholesale Grocery Co. has acquired plant of the Sanitary Cigar Factory; will install additional equipment and operate.

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Ga., Atlanta—American Bakeries Co., will erect \$20,000 addition to plant, 60x120-ft., brick, cement floors, tar and gravel roof; install \$15,000 equipment; will be completed in about forty-five days.*

Ky., Ashland—The Wheeler Self Serving Towel Co., organized with S. D. Wheeler, Pres., established assembling office at Seventeenth and Front Ave.

Ky., Louisville—Shoe Laces—The L. & R. Company has begun construction on \$45,000 shoe lace factory at Thirtieth and Magazine St.; 1-story, 75x220 ft., brick and glass construction; annual output approximately 30,000,000 shoe laces.*

Ky., Louisville—Reynolds Tobacco Curer Co., capital \$40,000, incorporated by Edwin D. and Wood F. Axtom, 334 Birchwood St.

Ky., Rockport—Rockport Creamery Co. (lately noted inep'td., capital \$12,000), organized with R. D. Park, Pres., has new plant, daily output 600 lbs. butter; will install small electric refrigerating plant. (See Machinery Wanted—Refrigerating Plant.)*

Ky., Whitley City—New Cumberland Falls Hotel Co., capital \$12,000, incorporated by M. B. Campbell, P. P. Walker and John W. Sampson.

Md., Baltimore—Silversmiths—Samuel Kirk & Sons, 106 Baltimore St., will erect 1-story and basement manufacturing plant at Twenty-fifth and Taylor Sts., 100x130-ft., concrete foundation and walls, brick, slag roof, steam heat; estimated cost \$80,000; Richard C. Sandlass, Archt., 4409 Main Ave.

Md., Baltimore—Ericsson Transfer Co., 1022 Hanover St., capital \$50,000, incorporated by Henry Leonard and Joseph Plitt.

Md., Baltimore—Fan Extractor Co., 1944 Continental Bldg., chartered by Joseph L. Kerr, James R. Brewer, Jr., and C. J. Kryzawsky.

Miss., Grenada County—Creamery—J. W. Saunders, Charleston, Miss., plans establishing creamery.

Miss., Jackson—Pioneer Butter Wrapping Machine Co., capital \$50,000, incorporated by J. T. Brown, Jackson; Geo. D. and F. W. Ratcliff of Clinton.

Miss., Pascagoula—Paper Bags—C. T. Elliott of Brookline, Mass., organizer and promoter of \$500,000 company, reported to have site and will establish plant to manufacture paper bags and sacks, estimated daily output 1000 bales of bags.

Mo., Joplin—Walker Lumber & Material Co., capital \$15,000, incorporated by C. E. Walker, Joplin, Mo.; D. J. Walker and Clyde W. Ingram.

Mo., Kansas City—Clothing—Mogul Co., capital \$75,000, incorporated by Louis Linfield, 1213 E. 3rd St.; S. Belove and L. W. Rodekohr.

Mo., Kansas City—Glover Sales Co., capital \$75,000, incorporated by C. R. Butler, 5435 Wyandotte St.; E. E. Norquiss, Wm. A. Knapp, 5316 Paseo St.; manufacture gasoline cleaning plants.

Mo., Kansas City—Florist—A. N. Nielson Co., capital \$15,000, incorporated by A. N. Nielson, P. L. McKee, Joe W. McQueen, 1109 Commerce Bldg.

Mo., Kansas City—The Perfume Service Co., capital \$25,000, incorporated by F. X. Brunner, 3336 Flora St.; J. Geo. Brinkman, 1701 Washington St., and Charles A. Melchert.

Mo., Kansas City—Day and Night Printing Co., incorporated by M. E. McDowell, M. A. Tyrell, M. H. Potter.

Mo., Springfield—Thomas Bowles will erect building on Boonville St. to be occupied by

Davis Candy Co.; cost \$23,000; Thomas D. Carter, Contr.

Mo., St. Louis—Wilmore Laboratories, Inc., chartered by A. E. Morelock, Carleton Bldg.; E. R. Williams, R. H. Lafman.

Mo., St. Louis—Riehl-Fiss Auto Trunk and Luggage Co. incorporated by Rudolph Riehl, Albert Fiss, 4212-A Arsenal St., and others.

Mo., St. Louis—Century Building Co., Twentieth and Pine Sts., let contract to Wimmer Construction Co., 916 Victoria Bldg., to improve building at 3701 Forest Park; L. B. Ondleton, Archt.

Mo., St. Louis—Highland Dairy Farms Co., 4311 Chouteau Ave., let contract Kremer & Voit Construction Co., Century Bldg., St. Louis, to construct \$200,000 distributing station to consist of cooler and office building 35 ft. x 111 ft., 2 stories and basement, reinforced concrete construction; 1 story wagon building, 40x180 ft., roof supported by steel columns and trusses; 2 story reinforced concrete stable, designed for additional stories, 123x88 ft.; 1 story repair shop and garage building, 160x88 ft.; let contracts to the following, to Modern Electric and Fixture Co., St. Louis for wiring for building purposes and outlets for machinery; to T. J. Sheehan Plumbing Co., St. Louis, for plumbing and sewerage; to Sodemann Heat & Power Co., for low pressure steam; all sub-contracts have been let, except machinery; Neal C. Davis, Archt., 1223 Central National Bank Bldg.*

Mo., St. Louis—Peerless Apron & Towel Supply Co., capital \$30,000, incorporated by Leo R. Bartholomew, J. W. Bressler, 4122 Lafayette Ave. and others.

Mo., St. Louis—Geo. W. Snarr & Co., incorporated by Geo. W. Snarr, 1214 Olive St., Ernest Moxter, 1214 Olive St. and others; manufacture electrical supplies.

N. C., Burlington—Vestal Heating & Plumbing Co., capital \$25,000, incorporated by B. J. Vestal, A. A. Apple and C. F. Neese.

N. C., Charlotte—The Icy Metal Products Co., Inc., capital \$300,000, chartered by E. C. Stoerhart, Pres.; will manufacture self-service beverage refrigerating and dispensing machine.

N. C., Raleigh—American Duplex Hydrant Co., capital \$150,000, incorporated by C. B. Atwater, R. V. Dixon and W. G. Maddry, 523 S. West St.

Okla., Claremore—The Monarch Publishing Co., capital \$10,000, incorporated by H. Tom Kight, K. B. Bernard, both Claremore; F. N. Littlejohn, Pacolet, S. C.

Okla., Duncan—Halliburton Oil Well Cementing Co., capital \$360,000, incorporated by Earl P. Halliburton, Duncan; A. S. Hardwicke, Dallas, Tex.; and A. H. Culver, Houston, Tex.

Okla., Spiro—O. K. Truck Co., capital \$10,000, incorporated by J. W. Crabtree, 1023 N. 12th St., Fort Smith, Ark.; R. A. Weicker, 1421 W. 19th St., and Bruce McClelland, Jr., both Oklahoma City.

Okla., Tulsa—Union Transportation Co., capital \$25,000, incorporated by J. A. Frates, Sr., J. A. Frates, Jr., 1616 S. Detroit St., and R. V. Miller, 722 S. Quaker St.

Okla., Tulsa—Barton Torpedo Co., capital \$100,000, incorporated by R. P. Barton, H. D. Streattor and J. D. Singley, 2701 E. 9th St.

S. C., Anderson—Coca-Cola Co., Capt. R. J. Ramer, Propr., will erect plant on East Orr and Evans Sts.

Tenn., Chattanooga—Kirkpatrick, Hardin &

White, capital \$30,000, incorporated by A. L. Kirkpatrick, James Bldg.; Carl White, Lookout Mountain, and S. H. Hardin.

Tenn., Knoxville—J. E. Slusher Manufacturing Co. incorporated by J. E. Slusher, R. P. Harvey, 121 W. Gill Ave.; B. G. Wogar.

Tenn., Memphis—Hays Supply Co., capital \$25,000, incorporated by D. S. Hays, J. W. Hays, Jr.; Thomas A. Evans, Bank of Commerce Bldg.

Tenn., Memphis—Greenhouses—Frank Giannotti, 1611 Union St., will erect \$18,000 greenhouse on Union Ave.

Tenn., Murfreesboro—King, Henry & Co. increased capital from \$300,000 to \$450,000.

Tenn., Tullahoma—Toilet Articles—National Manufacturing Co., capital \$25,000, chartered by J. E. Brantley, John W. Harton and W. G. Batey.

Tex., Athens—Homer L. Fry of Dallas, Joseph R. Pelich of Fort Worth and L. R. Wright of Athens have been engaged by East Texas Cotton Palace Directors to lay out grounds and design and construct buildings for complete fair on tract of 78 acres.

Tex., Beaumont—The Merchants Co., Inc., lately noted incorporated with \$15,000 capital, J. Mandola, Pres.; A. G. Baggesen, Sec., will erect salad manufacturing plant with daily output of 150 dozen; stucco with cement floors, 60x100 ft.; will install mixing machines. (See Machinery Wanted—Salad Dressing Making Equipment.)*

Tex., Haskell—Haskell County Fair Assn., capital \$10,000, incorporated by O. E. Patterson, Hardy Grisson and M. H. Post.

Tex., Houston—Union Carbide and Carbon Co., 30 42nd St., New York City, reported to expend \$300,000 for erection of plans for manufacture of Linde Air Products and Presto-O-Lite acetylene gas; wire from Union Carbide Co. states: "Plans for Linde and Presto-O-Lite gas plants, Houston, have just passed property buying stage; not yet in sufficient detail as to plants themselves to give you desired information."

Tex., Houston—Bettison Fishing Pier Co., increased capital from \$5000 to \$15,000, changed name from North Jetty Fishing Pier Co.

Tex., Port Arthur—Sabine Towing Co. increased capital from \$85,000 to \$125,000.

Tex., San Antonio—International Amusement Co., capital \$10,000, incorporated by G. A. Lucchese, Henry Table and S. Lucchese, 301 E. Myrtle St.

Tex., San Antonio—Globe Printing Co., capital \$15,000, incorporated by O. M. Kischell, B. G. Kischell, 431 W. Mistletoe St., and J. T. Heffron.

Tex., San Antonio—P. & S. Hospital Corp., capital \$20,000, incorporated by R. H. Durkee, Ellen L. Brient and J. H. Cunningham, Gunter Bldg.

Va., Fairfax—Maryland Drug and Chemical Manufacturing Corp., capital \$10,000, chartered with N. T. Jones, Pres.; Winfield Jones, Sec.

Va., Lynchburg—Manufacturers Building, Inc., capital \$120,000, chartered with W. D. Mount, Pres.; W. J. D. Bell, V.-P., 603 Federal St.; H. E. Steptoe, Sec.; have site at Kemper and Thirteenth Sts., 270x220 ft. and will erect loft building in three units, will erect one unit at first, to be approximately 60x180 ft.; 4 stories with connecting L, slow burning mill construction, sprinkler system; building will be equipped with loading plat-

form for trucks, electric elevator and steam heating system; Stanhope S. Johnson, Architect, Peoples National Bank Bldg.; Lockwood, Greene & Co., Cons'tl. Archts., Charlotte.

Va., Petersburg—Contracting—Finn Concrete Corp., capital \$10,000, chartered with M. M. Finn, Pres.; Z. Fleming Lyman, Sec., 208 Union Trust Bldg.

Va., Richmond—Baking Powder, etc.—Laird Manufacturing Co., 206 Brander St., W. L. Taylor, Pres., acquired building at Seventh and Perry Sts. and will expend \$10,000 on improvements and installation of machinery.

Va., Richmond—Broad-Street Building Corp., capital \$750,000, incorporated with E. Parrish, Pres., 2500 E. Broad St.; W. E. Sutton, Jr., Sec.

Va., Winchester—Winchester Steam Laundry, capital \$40,000, incorporated with Marie D. Robinson, Pres.; Mary Robinson, Sec.

W. Va., Fairmont—Fire Fighting Equipment—City will vote in August on bonds for the purchase of aerial fire truck. Address The Mayor.

W. Va., Morgantown—Tri-State Engineering & Construction Co. incorporated with T. R. Marshall, Pres., 36 Snyder St.; O. F. Arthur, Sec.

W. Va., Beckley—Fire Equipment—City voted \$12,000 bonds for fire equipment. Address The Mayor.

Motor Cars, Garages, Tires, Etc.

Ala., Jasper—Evans Auto Supply Co., Nineteenth St., (lately noted incepted) organized with George W. Evans, Pres.; Roy Peek, Sec., has completed building and installed equipment for repair shop; let contracts to Holdfast Rubber Co., Atlanta, Ga.; Interstate Electric Co. and the Standard Oil Co. both Birmingham, Ala.*

Ark., Little Rock—J. B. Cook Auto Machine Co., capital \$17,000, incorporated with J. B. Cook, Pres., 620 W. 7th St.

Fla., Chattahoochee—Chattahoochee Motor Co., capital \$12,000, chartered with A. C. Jones, Pres.; Homer Wirth, Sec.

Fla., Fort Lauderdale—Garage—E. E. Hardy will erect 50x80-ft. garage building on Brickell Ave., stucco and tile construction.

Fla., Haines City—Haines City Motor Co., capital \$50,000, chartered with J. K. Higgins, Pres.; R. T. Stainaker, Sec.

Fla., Jacksonville—Auto Necessity Shop, capital \$10,000, chartered with E. T. Suters, Pres.; J. F. Rivers, Sec., 131 E. Adams St.

Fla., Jacksonville—Inglis Realty Co. will erect 2-story, brick garage on Forsythe St.; cost \$28,000; W. T. Hadlow, Contr., Baldwin Bldg.

Fla., Miami—Airkool Sparkplug Corp., J. B. Harper, Pres., has plans by Kiehnell & Elliott, Archts., Miami, Fla., and 245 4th Ave., Pittsburgh, Pa., for 2-story factory building on North West 29th St. and Second Ave.; 100x145 ft.; capacity, 10,000 spark plugs daily; estimated cost \$175,000.

Fla., Orlando—Butt-Dean Co., capital \$750,000, chartered with J. Hale Dean, Pres., Gore Ave.; L. H. Reynolds, Sec.

Fla., Plant City—Whiting Railway Motor Car Co., J. A. Whiting, V.-P., of Gary, Fla., near Tampa, reported as contemplating plant at Plant City.

Md., Baltimore—Colonial Tire & Rubber Co., Fayette and Asquith Sts., incorporated by Wm. J. Ennis, John F. Nixon, Francis A. Michael.

Md., Baltimore—Auto Rental Co., Charles and Twentieth Sts., capital \$100,000 incorporated by Elias H. Weedon, E. Hyde Weedon, Jr., and L. Milton Weedon.

Mo., Carthage—Filling Stations—Carthage Oil Co., capital \$30,000, incorporated by G. A. Holtslander, C. E. Ozbun, L. W. Galbraith, 219 E. Macon St.

Mo., Kansas City—Motopower Sales Co., capital \$100,000, incorporated by H. L. Finnegan, A. A. Smith and H. T. Hatton.

Mo., Mount Olive—Mount Olive Motor Car Co., incorporated by David L. Remley, Sr., Theo. J. Faller, 910 Spring Ave., John G. Bain, Sr.

Mo., St. Louis—Garage—Grant Seeley, 4914 Delmar St. will erect 4-story, garage and filling station, on Eleventh St., 4-story, 100x152-ft., estimated loss \$100,000.

N. C., Raleigh—Garage—H. T. Hicks 327 Hillsboro St., let contract to J. W. Coffey Boylan Heights, to erect \$30,000 garage building on E. Davie St.

N. C., Raleigh—Garage—Rawls Motor Co., 405 Fayetteville St. let contract to C. F. Cutts, Capital Club Bldg., to erect \$12,000 garage on Fayetteville St.

Okla., Tonkawa—Tonkawa Motor Co. contemplates erecting \$60,000 plant.

Okla., Yale—Yale Motor Co., capital \$50,000, incorporated by L. E. Cash, Yale; C. D. Lacy, Oklahoma City and Cora M. Murdoch, Tulsa.

Okla., Sapulpa—Jucksch Garage, Inc., capital \$50,000, chartered by W. C. Jucksch, Frank and Bell Jucksch.

S. C., Greenville—Greenville Motor Co., capital \$10,000, incorporated by L. S. Wright, J. D. Mahon Smith, 108 Lavinia Ave.

Tenn., Chattanooga—Clary's Rent-A-Car System, capital \$10,000, incorporated by T. H. Clary, H. V. Keith, 2612 Oak St., and D. L. McKissick.

Tenn., Knoxville—Filling Station—Standard Oil Co. of Louisiana let contract to Worsham Brothers, Empire Bldg., to erect gasoline filling station for local branch, corner W. Cumberland and Fifteenth St.; estimated cost \$10,000.

Tenn., Strawberry Plains—Thorn Grove Motor Co. chartered by J. A. Frazier, J. W. Brewer, Jr., C. E. Dawson.

Tenn., Union City—Frank Oliver let contract for erection of 2-story brick garage building, first floor to be occupied by the Frank Oliver Motor Co. and second floor for apartments, etc.

Tex., Houston—Trublepruf Cushion Tire Co., incorporated by J. S. Baldwin, 316 Colquitt St., Ollie Huffman and G. Sterns.

Tex., San Antonio—Garage—Robt. M. and Atlee, Archts. will receive bids July 15 for frame and stucco garage and sales room.

Va., Danville—Payne-Wyatt Sales Co., Inc., capital \$50,000, chartered with L. R. Wyatt, Pres.; R. R. Payne, Sec.-Treas.

W. Va., Mannington—Filling Station—Dale Hamilton will erect double driveway filling station on E. Main St.

Railway Shops, Terminals, Round-houses, Etc.

Ga., Savannah—Atlantic Coast Line Ry. Co., J. E. Willoughby, Chief Engr., Wilmington, N. C., reported to build roadway shop at Liberty and E. Broad St.

Road and Street Construction

Ala., Birmingham—City Comm. plans improving 3 streets as follows: Extend Ave. E through Woodlawn and East Lake to Roebuck; pave Fifth Ave. from underpass near Terminal Station through Avondale and Woodlawn to Fifty-sixth St.; pave Tenth Ave. from Norwood through East Birmingham to intersection of First Ave. in Woodlawn. Address The Mayor.

Ala., Clanton—State Highway Dept., Mont-

gomery, will receive bids Aug. 6 to cement surface 17.4 mi. Chilton County link in Montgomery-Birmingham Highway.*

Ala., Jasper—Walker County Commrs. will receive bids Aug. 5 to grade 16 mi. road from Jasper to Oakman via Parrish.

Ala., Montgomery—Details under Bridges, Culverts, Viaducts.

Ala., Union Springs—State Highway Dept., Montgomery, Ala. plans building road from Union Springs to Barbour County line; A. H. Feagin, Res. Engr.

Ark., Marianna—State Highway Comm., Little Rock, Ark., plans completing 3 sections of roads out of Marianna, Lee County, four miles north, four miles south and four miles west.

Fla., Bartow—Polk County, Commrs. Dist. No. 1, plans improving 2 roads, totaling 31 mi. as follows: Mulberry-Brewster, through Pierce, and Mulberry-Plant City; also constructing 2 bridges over north branch of Alafia River; voted \$600,000 bonds. Address County Commrs.

Fla., Bartow—Polk County plans building twelve 15-ft. asphalt or clay roads as follows: No. 1, 1½ mi. Scenic Highway; Nos. 2, 3, 4, 5, 6, 7, 8, to extend from main highways at various points; No. 9, from Haines City to Polk County line and northwest; No. 10, 9¾ mi. from Davenport west through Holly Hill section; No. 11, 1¼ mi. east from Davenport; No. 12, 2¼ mi. west from Dixie Highway at Loughman; voted \$550,000 bonds. Address County Commrs.*

Fla., Boynton—City let contract to Frank Funk, Boynton, to lay several blocks of sidewalks.

Fla., Clearwater—Pinellas County, Tarpon Springs Dist. plans building additional roads about city; contemplates \$400,000 bond issue; C. S. Boyd, Engr., Northern Pinellas County Road Construction.

Fla., Daytona—City let contract to Ed. L. Guest & Son at \$60,000 for street paving. Address The Mayor.

Fla., Daytona—City will receive bids July 14 to pave several streets, 66,400 sq. yd. pavement; 6300 sq. yd. cement sidewalks; 9700 cu. yd. grading; plans etc. from City Mgr., and Harrington, Howard & Ash, 1012 Baltimore St., Conslt. Engrs., Kansas City, Mo.; L. E. Hough, City Clk.

Fla., Daytona Beach—City let contract to Southern Paving & Construction Co., Chattanooga, Tenn., at \$166,155 for 55,000 sq. yd. paving, 2-in. asphaltic concrete, Willite process.*

Fla., Fort Lauderdale—City plans paving Lawrence St. from Andrews to East Ave. Address The Mayor.

Fla., Fort Pierce—City plans paving street intersections; voted \$70,000 bonds; streets and viaducts under or over railroad tracks; voted \$34,000. Address The Mayor.

Fla., Lakeland—City will receive bids July 22 to pave 1466 ft. 20-ft. wide Georgia Ave., widen 1103 ft. 6-ft. wide Main St. and relay present pavement 40 ft. wide, brick, sand base and asphalt filler; plans, etc., from Anton Schneider, City Mgr., and Chas. Carroll Brown, City Engr.*

Fla., Lakeland—City will receive bids this week to grade and pave 130,000 lin. ft. 5 and 6-in. wide sidewalks, Portland cement concrete on sand foundations; Anton Schneider, City Mgr.; Chas. Carroll Brown, City Engr.

Fla., Lake Worth—Trustees of Special Road and Bridge Dist. No. 5 plan laying 5-ft. walkway along south side Lake Worth bridge. Address C. H. Holtzman, County Engr., West Palm Beach.

Fla., Madison City—City let contract to Inglis Construction Co., Jacksonville, Fla.,

at \$177,128 for 65,000 sq. yds. concrete paving.*

Fla., Miami—Dade County Comms., will receive bids July 18 to resurface with asphalt and sand 12 mi. Memorial Hospital road, approximate cost \$8000; A. B. Primm, County Engr.

Fla., Miami—Bay Vista Park Co. let contracts to J. F. Wigginton to lay 5-ft. sidewalks, and concrete curbs and gutters on all streets; to Collins Paving Co., to pave all streets to width of 60-ft., in Bay Vista Sub-division.

Fla., Palatka—City plans widening, extending and repaving streets, sidewalks and other ways; voted \$60,000 bonds. Address The Mayor.*

Fla., Sarasota—Details under Land Developments.

Fla., Sarasota—City let contract to J. H. Crawford, Sarasota, at \$107,807 for 16,400 sq. yds. street paving.*

Fla., Sebring—City plans improving and paving certain streets and drives; will vote July 29 on \$50,000 bonds; A. E. Lawrence, Mayor.

Fla., Sebring—City let contract to E. W. Harshman of N. C. Cash Construction Co., at \$16,756, for curbing and gutter in Lakeview Place sub-division.

Fla., St. Augustine—Details under Land Developments.

Fla., St. Petersburg—City plans opening First Ave. north to Seventh St. Address The Mayor.

Fla., Titusville—State Road Dept., Tallahassee, will receive bids July 24 for approach embankment to Sebastian River Bridge on Road No. 4, Brevard-St. Lucie Counties, 80,000 cu. yds. material, Federal Aid Project No. 39-B; plans, etc., on file and from Div. Engr.; J. L. Cresap, State Highway Engr.

Fla., West Palm Beach—City plans expending about \$58,905 to pave with rock and lay with concrete curb, gutters, etc., on 13 streets, alleys in paving Dist. No. 4-C; George L. Wright, City Mgr.

Fla., West Palm Beach—City Comn. let contract to Greynolds & Monroe, Inc., West Palm Beach, at \$136,994, for paving in Dist. No. 4, including Poinsettia, Bradley, Dobin, S. Olive Sts., etc.; will receive bids soon to extend Flagler Drive from Fern St. to Lakeview Ave.

Ga., Fitzgerald—Ben Hill County will furnish labor and State Highway Dept., East Point, Ga., will furnish material to hard surface highway in County north of Fitzgerald.

Kentucky—State Highway Comm. Frankfort, will receive bids Aug. 4 to improve 3 roads as follows: State Project No. 8, Sec. C, 2.392 mi. 18-ft. Louisville-Paducah road, from 2½ mi. east of Owensboro to city limits of Owensboro, reinforced concrete; rock asphalt 1½-in. compacted, 5-in concrete base; 2-in. compacted bituminous concrete, 5-in. concrete base; No. 11, Sec. A-1, reconstruct 4.57 mi. 14-ft. Owensboro-Hartford road, between South Panther Creek, and Pleasant Ridge, 7-in. loose river gravel, type A; 7-in. loose bank gravel, unrolled; 2½ mi. high type Hardinsburg road from city limits to overhead bridge at Louisville, Henderson & St. Louis R. R. tracks; plans, etc., on file; Joe. S. Boggs, State Highway Engr.

Ky., Ashland—City plans improving 9 streets, including Blackburn, Division, Gartin, S. Belmont, Old Orchard, etc.; W. M. Salisbury, Mayor.

Ky., Mayfield—Graves County plans road building; will vote Aug. 2 on \$50,000 bonds;

J. W. Monroe, County Judge.

Ky., Whitesburg—Letcher County Fiscal Court will let contracts soon for 2 sections of roads as follows: 6 mi. Roxana-to-Blackey Highway; several miles up Colly and Rockhouse Creeks.

Louisiana—Louisiana Highway Comm., Raymond Bldg., Baton Rouge, let contracts for 4 road projects as follows: .644 mi. Vinton-Orange Highway, Calcasieu Parish, W. T. Burton, Sulphur, La.; 3.91 mi. gravel, Lafayette-Opelousas Highway, from Town of Carencro to Bayou Carencro, Lafayette Parish, Lafayette Construction Co., Lafayette; 10.81 mi. Abbeville-Lafayette Highway, Vermilion Parish, Laiche & Miller, Morganza, La.; 7 mi. gravel Bernie-Junction City Highway, from Bernice to Lillie, Union Parish, N. M. George, Arcadia.*

La., Houma—City will receive bids this week to curb and pave sidewalks on following streets: Main, Court, Wood, High, Hobson, Academy, Good, Barrow, Church, Levron, Columbus, Beaumont and Bond Sts., and Park and Wilson Aves.; cement sidewalks on concrete base; brick or cement curb; Ernest D. Dupont, Mayor.

La., Lake Charles—City will receive bids this week to lay cement sidewalks on sections of 33 streets, including Clarence, Clement, East, Lake, Reid, Ryan, etc.; J. A. Trott, Mayor; L. L. Squires, Clk.

La., New Roads—Louisiana Highway Comm., Raymond Bldg., Baton Rouge, will receive bids July 22 to grade and construct drainage structures on 7.74 mi. New Roads—Simmsport Highway, through Road Dist. No. 5, from Fourth Road Dist. line on south to Seventh Road Dist. line on north; plans, etc., on file; J. M. Fourmy, State Highway Engr.

La., Oberlin—Allen Parish, Road Dist. No. 4, Ward 4, plans road building; voted \$150,000 bonds. Address Parish Police Jury.*

La., South Highlands—Board of Aldermen, let contract to Flenniken Construction Co., Shreveport, at \$150,000, to pave 37,000 sq. yd. streets, including all of Fairfield Heights, Huron St., etc.*

Md., Baltimore—City plans street paving and bridge building; plans voting Nov. 4 on \$7,000,000 loan; Howard W. Jackson, Mayor; Frederick A. Dolfield, City Register.

Md., Baltimore—Board of Awards let contract to Daniel Marine & Co., 2 E. Lexington St., at \$20,386 to pave with cement concrete following streets in Mount Washington: North Ave. from Cross Country Blvd. to alley east of Green Spring Ave., Ridge road from North Ave. to Crest road, Oksley road from Ridge road to Arden road, Arden road from Ridge to Crest road, Dale road from Crest road to alley north of Crest road.

Md., Baltimore—Paving Comm., R. Keith Compton, Chmn., 214 E. Lexington St., let contract to Frank D. and Robert A. Brady Co., Reisterstown Road and Anoka Ave., to pave Griffis Ave. from Washington Blvd. to Dennis Ave.

Md., Towson—Baltimore County Comms. will receive bids July 10 to improve 2000 ft. Clarendon Ave., Plikesville, 3rd Dist.; plans, etc., from Samuel A. Green, Roads Engr.

Miss., Jackson—Belhaven Street Assn., J. C. McGee, Sec.-Treas., interested in paving, etc., Belhaven St. from North State St. to Belhaven College. Address City Engr.

Missouri—State Highway Dept., Jefferson City, let contracts for 26 roads as follows: Barton County, 4.9 mi. hard surfaced, Independent Construction Co., Pittsburg, Kansas, \$116,044; St. Francois County, 5 earth roads, totaling 17.1 mi., also bridge, at \$260,083; to M. E. Gillioz, Monett, for four roads, and Public Works Construction Co., Century Bldg.

St. Louis, one road and bridge; Jefferson County, 5 earth roads, totaling, 22.7 mi., also bridge, \$210,580; C. P. O'Reilly & Co., Wainright Bldg., St. Louis, will build 3 roads, Brothers & Sons, Kimwick, Mo., and Public Works Construction Co., other 2; Vincennes Bridge Co., Vincennes, Ind., will build bridge; Audrain County, 3.8 mi. gravel J. P. Murphy, Moberly, Mo., \$31,992.

Bates, County, 2 roads, 8.7 mi. gravel, Western Bridge Co., Harrisonville, and Lamar Brothers, Sedalia, Mo., \$64,138; Cedar County, 2 roads, 9.6 mi. gravel, Lamar Brothers and Public Works Construction Co., \$62,362; Dade County, 1.7 mi. earth, Republic Construction Co., Republic, Mo., \$87,502; De Kalb County, 2 roads, 10.6 mi. earth, Ernest Eule, Easton, Mo., \$83,462; Douglas County, 2 roads, 6.6 mi. gravel, Jones & Harlan, West Plains, and J. A. Kerr, Ozark, \$33,313; Gasconade County, 1.1 mi. gravel, Doebla-Kolkmeyer, Jefferson City, \$4994; Reynolds County, 2 roads, 7.9 mi. earth, M. E. Gillioz, \$77,840; Worth County, 5 mi. earth, Oscar H. Schmidt, St. Joseph, \$24,173; Mississippi County, 2.2 mi. gravel, Novaculite Construction Co., Marion, Ill., \$32,637.*

Mo., Bolivar—State Highway Dept., Jefferson City, Mo., let contract to Easley Brothers & Hartley, Aurora, Mo., at \$33,424 for 3½ mi. gravel Bolivar-Fair Play road, from Bolivar west.

Mo., Carthage—City let contract to V. E. Koch, Joplin, Mo., to pave Main St.; to Henry Kost, Joplin, to pave Central and N. Garrison Aves.*

Mo., Columbia—City let contract to Clyde A. Stewart, at \$13,235 to pave Lowry St. Address The Mayor.

Mo., Edina—State Highway Dept., Jefferson City, let contract to P. J. Murphy, Moberly at \$18,929 to gravel north end of Edina and Baring road.

Mo., Maryville—City plans paving three blocks on S. Main St. Address The Mayor.

Mo., Moberly—City plans resurfacing with brick or asphalt Sturgeon St. from Coates to Rollins. Address The Mayor.

Mo., Springfield—City plans paving Phelps St., from Main to limits of Frisco tracks, brick on concrete base, asphalt filler. Address The Mayor.

Mo., St. Joseph—Board of Public Works will receive bids latter part of July to repave with asphaltic concrete Seventh St. from Belle to Walnut Sts., 5700 sq. yds. asphaltic concrete; 52 lin. ft. curbing; R. R. Gerrard, Sec. of Board.*

N. C., Asheville—City plans expending \$400,000 to improve streets. Address The Mayor.

N. C., Asheville—Buncombe County Comms. will receive bids July 11 to grade and pave Democrat road from Stocksville to Democrat, 75,000 cu. yds. earth excavation; 30,000 cu. yds. rock excavation; 53,000 sq. yds. paving; concrete and various type asphaltic construction on concrete base; plans, etc., from County Engr.; E. M. Lyda, Chmn. of Board.

N. C., Asheville—City Comms. will receive bids July 14 for street improvement; 50,000 sq. yds. sheet asphalt, concrete, brick, durax, bitulithic pavement, with necessary excavation, curb and gutter, storm sewers, etc.; plans, etc., from Gilbert C. White Co., Engrs., 406½ W. Main St., Durham, N. C.

N. C., Elizabeth City—City plans extending sidewalks, curbs, gutters, street paving, etc.; contemplates \$35,700 bond issue; J. H. Snowden, Clk.

N. C., Greensboro—City let contract to Murray Construction Co., Greensboro, at \$1,200,000 for 21 mi. asphalt paving on concrete base, 333,900 sq. yds.*

N. C., Greensboro—Details under Land Developments.

N. C., Greensboro—City plans widening 3 blocks on Greene St., between Sycamore and Washington, Gaston and Market and Washington and Buchanan; P. C. Painter, City Mgr.

N. C., Winton—State Highway Comm., Raleigh, N. C., will receive bids July 15 for 9 mi. 16-ft. road on Route No. 30, Hertford County, from Ahoskie to Winton.

Okl., Cherokee—Details under Land Developments.

S. C., Allendale—Allendale County Comms. will receive bids July 22 for 5,278 mi. State Route No. 331 from Allendale to Sycamore, 29,094 cu. yds. common excavation; 12,955 cu. yds. sand-clay surface; 1745 lbs. reinforcing steel in drainage structures; also creosoted bridge, five 14-ft. spans, containing 14,369 M. B. M. treated timber, 520 lin. ft. treated piling, 141 sq. yds. paving, State Project No. S-521; plans, etc., from W. C. Cathey, Div. Constr. Engr., Scovil Bldg., Orangeburg, and State Highway Engr., Columbia.

S. C., Charleston—Charleston County, Sanitary & Drainage Comm., will receive bids July 17 for earth embankment approaches to Ashley River Bridge, under construction on State Highway No. 6, Charleston, 2797 lin. ft. earth embankments across marshes; 74,000 cu. yd. embankments above present marsh level, Federal Aid Project No. 215; plans, etc. on file, and from State Highway Engr., Columbia, S. C.

S. C., Greenwood—Greenwood County Highway Comm., received low bid from C. C. Jordan, Anderson, at \$52,701 for 7.81 mi. State Route No. 7, Calhoun Highway, from city limits of Greenwood to Saluda River; from Bozier-Rodgers Construction Co., 105 E. Court St., Greenville, \$13,207, for reinforced concrete bridge.*

S. C., Laurens—Laurens County received low bid from Newell Contracting Co., Laurens, at \$67,414 for 10.16 mi. topsoil road on State Route No. 7, Mountville-Cross Hill-Saluda River road; from J. C. Morton, Saluda, at \$8721 for concrete bridge over Cane Creek.*

S. C., Newberry—Newberry County let contract to C. C. Jordan, Anderson, S. C., at \$36,290 to grade and topsoil 14 mi. road in county.

S. C., Newberry—Newberry County Highway Comm. let contracts for 2 top-soiled roads as follows: Four mi. from Little Mountain to Pomaria, Newell Contracting Co.; 14 mi. Whitmire road, from Elson Place to Beth Eden by Cromers, Gordon Construction Co.

Tennessee—Dept. of Highways and Public Works Nashville will receive bids soon for 3 roads as follows: Fayette County, 15 mi. Somerville to Shelby County line; Maury County, 12 mi. Columbia to Mt. Pleasant; Carroll County, 12 mi. Huntingdon to Jackson.

Tenn., Bristol—Board of Comms. plans improving Olive St. from Fifth to Fourth, and Seventeenth St.

Tenn., Gallatin—City will receive bids July 22 for 11,600 sq. yds. Kentucky rock asphalt paving on macadam foundation and 23,000 lin. ft. curb and gutter; plans, etc., from B. H. Klyee, Engr., 506 Fourth and First National Bank Bldg., Nashville, Tenn., or E. E. Person, City Recorder, Gallatin.

Tenn., Huntingdon—Carroll County Road Comms. plan building highways in each civil district of County.

Tex., Austin—Travis County Comms. will receive bids July 31 for improving 5 roads as follows: Concrete culverts on Georgetown road; concrete structures on Littig road; concrete structures on old Pflugerville road; grade road from Moore's Crossing to County line via Elroy and Stony Point; grade and construct drainage structures on road from

Colton to Elroy via Clingerville; Geo. S. Matthews, County Judge.

Tex., Bryan—City plans street paving; voted \$15,000 bonds; E. E. McAdams, Mayor.*

Tex., Burk Burnett—City plans permanent street paving on Avenue C from Fourth to College and then to Ave. D; Montgomery & Ward, Engrs., 1016 City National Bank Bldg., Wichita Falls, Tex.

Tex., Carthage—Panola County let contract to Bramer & Wilder, Houston, at \$55,449 for 9.6 mi. State Highway No. 43 from Beckville to Carter's Ferry on Sabine River.*

Tex., Dallas—Dallas County will receive bids July 22 for 3,665 mi. macadam base and bituminous top on State Highway No. 10-A from Sta. 1013 plus 80 to 1021 plus 00; Nagle-Witt-Rollins Engineering Co., Dist. Engrs.; Arch C. Allen, County Judge.

Tex., Dallas—City let contract to Central Bitulithic Co., Praetorian Bldg., at \$78,312, to pave Fairmount St. from McKinney to Oak Lawn Ave.; to Uvalde Paving Co. Insurance Bldg., \$29,696, to pave Bonita St. from Henderson to McMillan; both contractors of Dallas.

Tex., Hillsboro—Hill County plans 10.85 mi. 18-ft. gravel bituminous surfacing on State Highway No. 2-A, Federal Aid Project No. 413; Joe J. Estill, County Engr.; W. L. Wray, County Judge.

Tex., Jacksonville—City plans street paving; will vote July 15 on \$100,000 bonds. Late noted to vote June 23.

Tex., Kenedy—City will receive bids this week for 7 blocks of permanent paving, concrete or bitulithic; estimated cost \$35,000. Address The Mayor.

Tex., Laredo—Webb County will receive bids July 29 to grade and gravel 1.00 mi. State Highway No. 12-A, 6700 cu. yds. channel change excavation; 13,000 cu. yds. borrow; T. E. Huffman, County Engr.; A. Winslow, County Judge.

Tex., Linden—Cass County will receive bids for 4.99 mi. 9-ft. concrete paving on State Highway No. 48 from Atlanta to John's Creek, estimated cost \$123,000; F. E. Hess, Engr., Box 284, Texarkana; S. L. Henderson, County Judge.

Tex., McAllen—City plans street paving; voted \$60,000 bonds; F. B. Freeland, Mayor.*

Tex., Navasota—City plans street paving; will vote July 15 on \$75,000 bonds. Address The Mayor.

Tex., Refugio—Refugio County, Woodsboro Road Dist. No. 2, plans hard surfaced roads; will vote July 19 on \$150,000 bonds. Address County Comms.

Tex., Sonora—Sutton County will receive bids July 25 for 10.64 mi. gravel surface on State Highway No. 10-A, Federal Aid Project No. 379; County to furnish gravel; H. P. Stockton, Jr., County Engr.; Alvin Johnson, County Judge.

Tex., Temple—City plans street paving; voted \$50,000 bonds; H. J. Graeser, City Mgr.*

Tex., Tyler—Smith County will receive bids July 29 for grading, graveling and building bridges on 16.3 mi. State Highway No. 64, estimated cost \$260,000; D. K. Caldwell, County Engr.; D. K. Pendleton, County Judge.

Virginia—State Highway Dept., Richmond, received low bids for 8 road projects as follows: Roanoke and Montgomery Counties, 1.96 mi. bituminous macadam from Kumis to Elliston, Walton Construction Co., 147 E. 125th St., New York, \$45,848; Sussex County, 5.26 mi. concrete near Homeville, Southern Construction Co., Petersburg, \$181,783; Appomattox County, 3 mi. bituminous macadam from West Appomattox to Concord, W. W.

Boxley & Co., First National Bank Bldg., Roanoke, \$183,031; Montgomery County, 3.057 mi. bituminous macadam from Radford east, Pendleton Construction Co. and Abbott Brothers, \$96,240; Fauquier County, 2.87 mi. bituminous macadam, between Warrenton and Remington, Lynchburg Construction Co., Lynchburg, Va., \$34,201; Accomac County, 3.075 mi. concrete from Maryland State Line to point north of Oak Hill, Baker-Royer Co., \$104,045; Brunswick County, 1.5 mi. concrete and 1.6 mi. gravel, between Edgerton and Lawrenceville, Ford & Harvey, \$62,620; Campbell County, 2.861 mi. topsoil from Sugar Hill to Brookneal, C. W. Chandler, \$29,328.*

Va., Abingdon—Washington County Board of Supvrs. will receive bids July 14 for 2 roads as follows: 4.2 mi. Meadow View road between Geisler's Mill and Hyter's Gap, 30,640 cu. yds. unclassified excavation; 38,283 sq. yds. 6-in. waterbound macadam; 3.87 mi. Glade Spring, Saltville road, from Glade Spring Dist. line to Sturgeon Creek, 20,000 cu. yds. unclassified excavation; 27,067 sq. yds. waterbound macadam; plans, etc., from County Clk. and State Highway Comm., Richmond.

Va., Fort Myer Heights—Arlington County, Arlington Dist., plans building ten 16-ft. concrete roads as follows: 1½ mi. Wilson Blvd. from Lubber Run to County line, 1 mi. Columbia turnpike from Doctor's Run to County line, ½ mi. Military road from Arlington Cemetery to Rosslyn, ¾ mi. Donaldson road from Wilson Blvd. to Washington St., 1½ mi. Washington St. from Hatfield to Clarendon, ¾ mi. Shelly road from Hatfield to Glebe road, 1½ mi. Clarendon Ave. from Clarendon to Shelly road, ½ mi. Bingham road from Shelly road, ½ mi. Garrison road from Clarendon to Glebe road; straighten Wilson Blvd. at Picketts Hill; contemplates \$326,000 bond issue; Capt. John T. Talman, County Supt. of Roads.

Va., Orange—State Highway Comm., Richmond, plans 6 mi. link between Gordonsville and point on Richmond-Charlottesville Highway near Waldron.

Va., Rustburg—Campbell County will receive bids July 21 for 3.31 mi. Hodges road, between State Road No. 14 and Gladys, 8500 cu. yd. soil; plans etc., from County Clk., and State Highway Comm., Richmond.

Va., Wytheville—Wythe County, Board of Supvrs., let contract to Aker & Fry, for Red River road, from State Highway No. 15 at point near Farmers' Store to Graham's Forge road.

W. Va., Barboursville—Village will receive bids July 22 to grade, drain and pave seven streets, including Allen, Union, Central, McClung Aves., and Barbara, Maple, Peyton Sts., bituminous slag macadam with Bermudian road asphalt binder, and with oil asphalt binder; Portland cement concrete paving; combination concrete curb and gutter; plans, etc., from Thos. Woodroffe, Recorder, and R. W. Breece, 317 Ninth St., Huntington.

W. Va., Beckley—City plans street paving; voted \$50,000 bonds. Address The Mayor.

W. Va., Fairmont—City plans paving several streets and resurfacing others; will vote in Aug. on bonds; Albert J. Kern City Clk.*

W. Va., Martinsburg—City will receive bids July 21 to pave with concrete 2900 sq ft. Queen St. subway and approaches; plans, etc., from C. J. Weaver, City Engr.; John H. Zirkle, City Recorder.

W. Va., Moundsville—Marshall County will receive bids July 14 to grade and pave with concrete 2 sections road as follows: 3.8 mi. 18-ft. Federal Aid Project No. 138-A, cost \$100,000; 1 mi. 18-ft. Federal Aid Project

July 10, 1924.

MANUFACTURERS RECORD.

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Tenn.,
Knoxville—City, John C. Borden,
Director of Finance, will soon ask for bids
for construction of Oakwood sewer system,
to cost \$78,472.*

Tex., Dallas—City let contract at \$42,750
to Central Bitulithic Co., Praetorian Bldg.,
Dallas, for storm sewer on McKinney Ave.*

Tex., Nederland—City contemplates con-
struction of sewer system. Address The
Mayor.

Tex., San Benito—City votes July 22 on

In writing to parties mentioned in this department it will be of advantage to all concerned if the Manufacturers Record is mentioned.

No. 138-B, cost \$35,000; H. E. Snyder, Engr.,
Parkersburg.

W. Va., Wheeling—Oakmont Improvement
Co., 703 National Bank Bldg., let contract
to H. D. Patterson Co., Wheeling, at \$120,-
000 for 16,850 sq. yd. concrete paving; 10,-
000 lin. ft. curbing; 36,700 sq. ft. sidewalks,
etc.*

Sewer Construction

Ala., Selma—City, Wm. B. Hall, Mayor,
will construct sanitary sewer on Water Ave.

Ark., Bentonville—Sewer Improvement Dist.
No. 1, E. C. Pickens, Sec., will receive bids
July 24 to construct 14 miles of 6 to 15-in.
sanitary sewers and sewage disposal plant;
W. L. Winters, Engr., Merchants Bank Bldg.,
Fort Smith, Ark.

Fla., Coweta—City voted \$47,000 sanitary
sewer bonds. Address The Mayor.*

Fla., Daytona—City, L. E. Hough, Clk., will
receive bids July 14 to construct storm-sewer
extensions. (See Machinery Wanted—Storm-
Sewer Extension.)

Fla., Daytona Beach—City let contract to
I. C. Mishler, Deland, Fla., at \$37,323 for 2
miles of sanitary sewer system; H. S. Jaudon
Engineering Co., Elberton, Ga.*

Fla., Fort Pierce—City voted \$60,000 bonds
for sanitary sewers and \$40,000 bonds for
storm sewers. Address The Mayor.

Fla., Palatka—City voted \$40,000 bonds
for extension to present sewer system. Ad-
dress The Mayor.

Fla., Sarasota—Details under Land De-
velopments.

Fla., Sarasota—City let contract at \$13,431
to George Skene of Sarasota for constructing
additional sewers.

Fla., Sebring—City votes July 29 on \$30,-
000 bonds for construction of sewer system.
Address The Mayor.

Fla., St. Augustine—Details under Land
Developments.

Ky., Henderson—Ell Manion has contract
for construction of sewer in First St.

Md., Baltimore—City, Howard W. Jackson,
Mayor, plans voting Nov. 4 on \$10,000,000
loans for sewers and \$1,500,000 for electrical
conduits.

Mo., Burlington Junction—City voted \$33,-
000 sewer bonds. Address The Mayor.*

Mo., Maryville—City receives bids July 14
for construction of sewers on Mulberry and
Lincoln Sts.

Mo., Washington—City voted \$65,000
bonds for water tower and water main ex-
tension. Address The Mayor.

N. C., Greensboro—Details under Land De-
velopments.

N. C., Wilkesboro—Town, Chas. G. Gil-
reath, Mayor, will expend \$16,000 for 3
miles of 8 and 10-in. terra cotta sewers;
Carolina Engineering Co., Engrs., Wilming-
ton, N. C.; W. A. Ebert, Contr., Charlotte,
N. C.

Tenn., Knoxville—City receives bids for
construction of sanitary sewers in Oakwood.*

S. C., Clinton—City will vote on \$30,000
sewer extension bonds. Address The Mayor.

S. C., Spartanburg—Details under Land De-
velopments.

Tenn., Knoxville—City, John C. Borden,
Director of Finance, will soon ask for bids
for construction of Oakwood sewer system,
to cost \$78,472.*

Tex., Dallas—City let contract at \$42,750
to Central Bitulithic Co., Praetorian Bldg.,
Dallas, for storm sewer on McKinney Ave.*

Tex., Nederland—City contemplates con-
struction of sewer system. Address The
Mayor.

Tex., San Benito—City votes July 22 on

\$20,000 sewer extension bonds. Address City
Sec.

Va., Norfolk—City, Walter H. Taylor, 3rd
Director of Public Works, will receive bids
until July 14 for sewer construction. (See
Machinery Wanted—Sewer Construction.)

Va., Portsmouth—City, J. P. Jervis, Mgr.,
let contract at \$45,000 to Duke & Smith, La-
fayette Bldg., Portsmouth, for building and
equipping city's sewerage pumping stations
at Green and Race Sts. and Douglas Ave.*

Va., Richmond—City, Allen J. Saville,
Director of Public Works, receives bids August
5 to construct approximately 2510 lin. ft.
of 29x16-ft. 3-in. and 3795 lin. ft. of 27x15
ft. 1½-in. reinforced concrete arch sewers;
464 lin. ft. of 7-ft. 6-in. x 7-ft. 2-in. rein-
forced concrete box sewer, certain reinforced
concrete junction boxes, lateral segment block
or precast concrete sewers, terra cotta san-
itary sewers, etc. also for construction of
approximately 2262 lin. ft. of 27-ft. x 15-ft.
1½-in. reinforced concrete arch sewer; 542
lin. ft. of 17-ft. x 11-ft. 9-in. reinforced con-
crete box sewer; headwall, concrete siphon,
junction box and certain sanitary sewers.

W. Va., Beckley—City voted \$38,000 bonds
for sewers. Address The Mayor.

W. Va., Wheeling—Details under Land De-
velopments.

Telephone Systems

Fla., Davenport—City, Charles A. Crisp,
Clk., will receive bids until August 1 to con-
struct and furnish materials for water works
improvements. (See Machinery Wanted—
Water Works Improvements.)

Fla., Port St. Joe—A. T. Perkins, Bryan
Snyder and B. W. Wells will operate local
and long distance telephone exchange in Port
St. Joe and Calhoun County.

Fla., Haines City—Peninsular Telephone
Co. is expending \$75,000 on underground wir-
ing system.

Fla., Sarasota—Details under Land De-
velopments.

Mo., St. Louis—Southwestern Bell Tele-
phone Co., E. D. Nims, Pres., proposes erecting
2-story, 101x160-ft. exchange building
corner Grand Blvd. and Botanical Ave.;
building will be arranged with columns and
footings sufficiently strong to accommodate
five additional stories; will install equip-
ment and is expected that the automatic
exchange will be in service in 1926 and prob-
ably serve stations known as Laclede and
Prospect; estimated cost of entire project,
including site, building and equipment, about
\$2,000,000.*

Tex., Marshall—Marshall Telephone Co.,
part of the Southwestern Bell Telephone Co.,
is installing additional facilities.

Tex., San Antonio—Southwestern Bell
Telephone Co., Harry Martyn, local Mgr.,
215 E. Travis St., will erect \$70,000 addition
to present building.

W. Va., Morgantown—Chesapeake & Poto-
mac Telephone Co. of West Virginia has ac-
quired site at Fayette and Chestnut Sts.;
will erect exchange building, brick construc-
tion.

Textile Mills

Ga., Whitehall—White Manufacturing Inter-
ests, represented by James Robert, and Hugh
White, will erect bleachery, dye and loom
mill; install 100 looms; manufacture material
for crinkle bed spreads, etc.; cost about
\$250,000.

N. C., Gibsonville—Mineola Manufacturing
Co. has plans by J. E. Sirrine & Co., Engrs.,
Greenville, S. C., for weave shed 192x228 ft.,
standard daylight construction; will install
broad automatic looms, replace mechanical

drive by motor drive, rearrange machinery
and install some preparatory machinery.

N. C., High Point—Earle-Dempsey Hosiery
Co., capital \$100,000, incorporated by T. B.
Earle and Mary Bellmer, both High Point;
A. F. Dempsey, 609 West Ave. N. E., Balti-
more, Md.

S. C., Anderson—Anderson Hosiery Mills.
C. G. Sayre, Pres., will probably increase
capital from \$35,000 to \$75,000.

Tenn., Loudon—Loudon Hosiery Mill will
erect 50x100 ft. brick addition to plant;
Mr. Fonde of Maryville in charge.

Water Works

Ala., Anniston—Alabama Water Co. will
expend about \$100,000 for improvements and
enlargements to plant.

Fla., Fort Pierce—City voted \$125,000
bonds for construction of 1,000,000 gal. filtra-
tion plant and pumping station. Address The
Mayor.*

Fla., Lantana—Details under Miscellaneous
Enterprises.

Fla., Palatka—City voted \$40,000 bonds for
extending, enlarging and maintaining water
works system. Address The Mayor.

Fla., Sarasota—Details under Land De-
velopments.

Ga., Albany—City, W. M. Legg, Mayor, re-
ported to have let contract to A. E. Ittner
Construction Co., Waycross, Ga., for con-
struction of 1,000,000-gal. reservoir.

La., Lafayette—City Board of Trustees let
contracts for machinery and other equip-
ment for repair of water and light plant; to
Bush-Sulzer Co. at \$72,000 for 2 engines and
to Westinghouse Electric and Manufacturing
Co., East Pittsburgh, Pa., at \$18,842 for 2
alternators, 2 excitors, one 13-panel switch-
board and 3 series transformers with panels.

Miss., Vicksburg—City Water Works, M. L.
Worrell, Bowmar Ave., Engr. and Mgr., will
construct pipe line from city's northern
boundary to Waltersville, a small manufac-
turing community distance of 2 miles; will
use about 11,000 ft. of 8-in. cast-iron pipe
with valves and specials; work by company's
forces.

Mo., Burlington Junction—City voted \$42,-
000 water works bonds. Address The Mayor.*

N. C., Greensboro—Details under Land De-
velopments.

N. C., Durham—City, R. W. Rigsby, Mgr.,
let contract to Hardaway Contracting Co.,
Columbus, Ga., at \$934,832 for construction
of dam which is part of the \$2,000,000 water
development project; contract includes lay-
ing of necessary pipe, installation of check
valves, erection of pole line, clearing of wood
from dam site, grading of river road and
erection of dam and powerhouse; other con-
tracts let are as follows: To Lynchburg
Foundry Co., Lynchburg, Va., at \$72,451 for
cast-iron pipe; to Chapman Valve Mfg. Co.,
Indian Orchard, Mass., at \$6800 for gate
valves; to Elliott Co. for strainers; to Builders
Iron Foundry, 9 Codding St., Providence,
R. I., for venturi meters; to Western Electric
Co., 463 West St., New York, at \$19,737 for
line material; to Knoxville Iron Co., Knox-
ville, Tenn., at \$5052 for reinforcing steel.*

S. C., Clinton—City will vote on \$70,000
water extension bonds. Address The Mayor.

S. C., Fort Mill—City plans voting on \$10,-
000 bonds for water works improvements.
Address The Mayor.*

Tenn., Lewisburg—City let contract to
Sherman Machine and Iron Works, 18-32 E.
Main St., Oklahoma City, Okla., for con-
struction of waterworks; P. H. Norcross,
Engr., Candler Bldg., Atlanta, Ga.*

Tex., Dallas—City will receive bids July
22 for construction of water reservoir dam
near town of Garza, \$3,000,000 bonds for
which have been voted and sold; main sec-

tion of dam will be earth 60' aggregating 1,800,000 cu. yds. and will be built by hydraulic fill method; concrete in the conduits and spillways approximates 27,000 cu. yds.; the cutoff under main dam will be of steel sheet piling; Nagle & Thompson, Water Reservoir Engrs., 2003½ Main St., Dallas.*

Tex., Keren—City contemplates voting on bonds for water works system. Address The Mayor.

Va., Round Hill—Town, Johnson Taylor, Recorder, will receive bids July 22 to construct ½ mile of 6-in. iron water main and about ¾ mile of 4-in. water main.

Va., Staunton—City, W. F. Day, Mgr. will receive bids July 19 for Diamond Drill investigation of North River Storage dam site. (See Machinery Wanted—Core Drilling.)

W. Va., Wheeling—Details under Land Developments.

Woodworking Plants

Ala., Andalusia—Sash, Doors, etc.—Andalusia Manufacturing Co., E. R. Merrill, Pres. has under construction \$25,000 plant, 114x180-ft. brick and concrete, concrete, wood and cinder floors; Johns-Manville built-up roof; will install wood working machines. (See Machinery Wanted—Woodworking Machines)*

Mo., St. Louis—American Wood Products Co., 864 Blow St., let contract to Henry Hinrichs, 1008 Loughborough Ave., for 50x80-ft. wooden building; concrete floors, slate-coated roofing; has installed 17 mill work machines, all purchased.*

Tenn., Memphis—Gause-Beard Plywood Co., capital \$200,000, reorganized with E. C. Gause, Pres.; will enlarge plant, increasing capacity from 500,000 ft. to 1,000,000 ft. per month; formerly Water Proof Plywood Co.

Va., Pulaski—Pulaski Furniture Co., capital \$650,000, incorporated with H. C. Gilmer, Pres.; Beulah Dillon, Sec.

FIRE DAMAGE

Ark., Russellville—Jenkins and Ragsdale buildings on Main St., occupied by Crest Store and Ferndale Cafe; loss \$50,000.

Ark., Searcy—Sam Duncan's store, owned by Mrs. A. S. Joyce.

Fla., Bradenton—Boat house of Robert L. Stillson, on Palma Sola Bay; loss \$20,000.

Fla., Jacksonville—Warehouse building occupied by the Quaker Oats Co., the Booth Fisheries, the St. John's River Day Line and the Towers Hardware Co.; estimated loss \$100,000; joint owners of the pier and warehouses are F. D. Fant and Dyal-Upchurch Investment Co.

Ga., Atlanta—Gordon Grocery Co., 191 Peters St.; loss \$50,000.

Ky., Central City—Building at First and Broad Sts., owned by H. Miller of Louisville and occupied by stores of Humphrey & Humphrey and D. Ruby.

La., Algiers—South New Orleans Light & Traction Co. power plant and car barn; estimated loss \$250,000.

Md., Baltimore—Hanover Market; damage \$10,000.

Miss., Centerville—Glass Store; building occupied by Dr. Polk, and other buildings.

Miss., Jackson—R. E. Kennington's combination barn, garage and storing house.

Miss., Jackson—Warren-Godwin Lumber Co.'s plant; loss \$150,000.

Mo., Republic—House, barn and granary of Roscoe Hood.

In writing to parties mentioned in this department it will be of advantage to all concerned if the Manufacturers Record is mentioned.

Ola., Bengal—Bee Lumber Co.'s planing mill; loss estimated at \$25,000.

S. C., Edgefield—Dr. J. G. Tompkins' residence.

S. C., Holly Hill—J. S. Way's building; postoffice building owned by Wm. Jeffers; First Nat'l Bank Bldg.: Farmers' Nat'l Bank Bldg.; total loss \$50,000.

Tenn., Dresden—Tom Essary's residence, 3 miles north of Dresden.

Tenn., Elizabethton—Ryan Drug Co., owned by First Nat'l Bank; H. M. Campbell Grocery Co.; loss \$40,000 to \$50,000.

Tenn., Knoxville—Plant of the Broome-Hesley Lumber Co. and portion of the Knoxville Mattress and Excelsior Co.'s plant at Lonsdale; estimated loss \$60,000.

Tenn., Lawrenceburg—Lawrenceburg Milling Co.'s plant, loss \$16,000.

Tenn., Tullahoma—Horace T. Franklin's residence, Summit and E. Lauderdale Sts.

Tex., Corsicana—Building owned by Mrs. Ruby Newman and occupied by H. Rothkoff store and Posey Edwards' garage; \$20,000.

Tex., Dallas—C. T. Jones' residence, 5151 Richard Ave., Northeast Dallas.

Tex., Dallas—Office building and sheds of

Spencer Lumber Co., N. Central St., loss \$27,000.

Tex., Houston—Binz building. Address the Owner.

Tex., Kingsville—Enterprise Meat Market; delicatessen shop; electrical fixture shop; Truitt's tailor shop; Quality Bakery; Kingsville Record plant; total loss \$60,000.

Tex., Marble Falls—John M. Clarke's residence in Pleasant Valley community.

Tex., Pittsburgh—J. H. Brison's residence, 4 miles S. W. of Pittsburgh.

Tex., Stamford—Scott Brothers' building, occupied by Walker-Smith Grocery.

W. Va., Trout—Store building owned by Geo. T. Coe of Richwood; loss \$10,000.

Damaged by Storm

Tex., Victoria—100-ft. wooden bridge at head of Old Boggy Creek, tributary of Coletto Creek; 100-ft. steel bridge across Boggy Creek, first bridge west of Raisin; eastern approach to 80-ft. steel bridge across Dry Creek. Address County Commrs.

BUILDING NEWS

BUILDINGS PROPOSED

Association and Fraternal

Ky., Lexington—Phoenix Lodge No. 25, K. of P., W. L. Dawson, Chmn., Bldg. Comm., 3231 E. Maxwell St. advises will not let contracts for few months for 2-story and basement, 44x80 ft. brick building; Arthur Giannini, Archt., care Hendricks, Moore & Co., 417 Georgetown St., Lexington.*

Ky., Livermore—Livermore Lodge No. 186, A. F. & A. M., will erect \$12,000 to \$15,000 temple; 2 stories, 40x90 ft.; will probably lease lower floor to State for armory.

Ola., Perry—Ancient Free and Accepted Masons, A. M. Crowder, Sec., reported to receive bids in about 2 weeks for reinforced concrete and brick temple; cost \$50,000; stone trim, concrete foundation, pine and oak floors and finish, structural steel, tar and gravel roof; Hawk & Parr, Archts., Security Bldg., Oklahoma City.*

Tex., Denton—Stanfield Lodge No. 217, A. F. & A. M., M. B. Whitlock, Chmn., Bldg. Comm., will erect 3-story, 120x60-ft. temple, Ash and E. Hickory Sts.; cost \$60,000; will use all salvaged material possible.

Tex., Greenville—Otho Morgan Post, American Legion, plans to erect building to replace burned structure.

Tex., Waco—Lodge No. 166, B. P. O. E., Otto Fullen, Exalted Ruler, 1524 N. 5th St., is having plans prepared by Roy E. Lane, Chamber of Commerce Bldg., Waco, for remodeling and enlarging building for lodge rooms, Columbus and 5th Sts.; 2 stories, hollow tile, maple floors, plaster board, wire glass, asphalt roof, cost about \$10,000.*

Bank and Office

Fla., Daytona Beach—Volusia County Bond & Mortgage Co. advise plans for office building will not mature before Nov. 1, 1924.*

Fla., St. Augustine—St. Augustine National Bank will probably soon let contract to remodel building.

Ga., Atlanta—Morrison Realty Co. reported to receive bids until about July 15 at office

Raymond C. Snow, Hurt Bldg., Atlanta, for brick, stone, marble and steel office building; cost \$750,000.

Ga., Nashville—United Banking Co., incorporated with \$150,000 capital and is reported to erect building.

Ky., Blackey—Blackey Ice Co. will erect office building; contract at once.

Miss., Yazoo City—Delta Bank & Trust Co., John Lear, Pres., will remodel and enlarge building; install 2-story vault.

Tex., Dallas—Republic Building Co., Wirt Davis, Chmn., Bldg. Comm., P. O. Box 28, will receive bids July 25 (lately noted July 14) for superstructure of bank and office building, Main St. and Exchange Place; separate bids for heating, plumbing, electric wiring and elevator; steel, reinforced concrete, granite, stone and terra cotta, fireproof, 20 stories, basement and sub-basement, 96x100 ft. tile and wood floors, vacuum steam heat, 5 high-speed elevators, cost \$1,500,000, plans and specifications from C. D. Hill & Co., Central Bank Bldg., Dallas.*

Tex., Falls City—Atlee B. & Robt. M. Ayres, Archts., Bedell Bldg., San Antonio, Tex., will receive bids July 15 for remodeling bank building.*

Tex., San Antonio—Ernest Brown, Pres., Alamo National Bank, is chmn. of bldg. comm. to erect \$100,000 office building, Navarro and Commerce Sts.

Tex., San Antonio—Southwestern Bell Telephone Co., Harry Martyn, Local Mgr., will erect office addition to present building, 215 E. Travis St.; brick and concrete, cost about \$70,000; plans being prepared at Dallas office of company.

Churches

Ark., Hoxie—Catholic Church will erect church, hall and residence. Address The Pastor.

Fla., Miami—Riverside Presbyterian Church, Independent, will erect \$15,000 building. Address The Pastor.

Fla., Winter Park—Protestant Episcopal Church plans to erect parish house and rectory. Address The Rector.

Ga., Waycross—Central Baptist Church will erect Sunday school annex. Address The Pastor.

Ky., Ashland—Unity M. E. Church, Oakview, Ashland, will erect \$25,000 building; brick and hollow tile, 2 stories and balcony, 45x86.6 ft., hardwood and concrete floors, concrete foundation, rolling partitions, wire glass, slate roof; Thos. F. Walston, Archt., 917 Ashland National Bank Bldg., Ashland.*

La., Baton Rouge—First Methodist Church Wm. Shields Holmes, 611 Third St., Chmn., Bldg. Comm., is receiving bids for main auditorium and Sunday school building; separate bids for plumbing, heating and electric work; cost \$150,000, exclusive of seating, organ, etc.; Spence & Phillips, Inc., Archts., Goodwyn Inst. Bldg., Memphis, Tenn.*

Md., Mount Savage—Mount Savage M. E. Church is excavating for frame Sunday school building; 2 stories, 40x70 ft., maple floors, concrete foundation, slate roof, cost \$17,000; construction by day labor. Address J. B. Brower, Jr., Archt., Cumberland, Md., for bids on sub-contracts.

Mo., St. Louis—Christ Church, Cathedral, 1210 Locust St., is reported to erect parish house as national memorial to late Bishop Daniel Sylvester Tuttle.

Mo., West Plains—Christian Church, Rev. R. E. L. Prunty, Pastor, is having plans prepared by Fred Fisher, West Plains, for building.*

N. C., Charlotte—Church of Christ, Disciples, A. A. Knee, 511 Kingston Ave., Chmn. Bldg. Comm., accepted plans by A. A. Honeywell, Indianapolis, Ind., for \$30,000 brick or stone Sunday-school building, Dilworth Rd.; 2 stories and basement, auditorium to seat 300, classrooms, etc.; main auditorium to seat 500 to 600 to be erected later.*

Okl., Oklahoma City—Pennsylvania Ave. Christian Church, 12th St. and Pennsylvania Ave., Rev. Geo. W. Baney, Pastor, will probably break ground in few weeks for \$65,000 building.

Okl., Pawhuska—Christian Church will receive bids about July 10 for Spanish type building, 9th and Prudom Sts.; brick with Bedford or Carthage stone trim; cost \$50,000; Clyde E. Woodruff, Archt., 2550 Vickery St., Fort Worth, Tex.*

S. C., Columbia—Ebenezer Lutheran Church, Dr. C. L. Kibler, Chmn., Bldg. Comm., plans to erect church and parsonage and enlarge Sunday school; cost about \$150,000.

S. C., Saluda—Lutheran Church, J. J. Long, Chmn., Bldg. Comm., will erect building; J. B. Urquhart, Archt., 607 Palmetto Bldg., Columbia, S. C.; bids opened July 8.

Tenn., Chattanooga—Seventh Day Adventist Church will erect brick building; 1-story and basement; cement plaster, composition roof; Benjamin, Robinson & Benjamin, Archts., Grand Rapids, Mich.

Tenn., St. Elmo (Branch Chattanooga)—Baptist Church has plans by R. H. Hunt Co., James Bldg., Chattanooga, for \$60,000 building; 3 stories, brick or stone, asbestos roof.

Tenn., Knoxville—Park City Presbyterian Church, Chas. B. Converse, 2124 Virginia Ave., Chmn., Bldg. Comm., will remodel main building and erect 6 additional Sunday school rooms; cost \$150,000.

Tex., Alpine—Methodist Church, C. F. Kimball, Chmn. Bldg. Comm., will receive bids July 15 for reinforced concrete and tile building; stucco finish or solid brick walls,

67x71 ft., walls 30 ft. high with 59-ft. tower, concrete basement; separate bids on same date for brick, frame and stucco parsonage.

Tex., Graham—Presbyterian Church will open bids about July 10 for general contract, all equipment and furniture for brick building; 2 stories and basement, 65x100 ft., pine and concrete floors, concrete foundation, art glass, ventilators, rolling partitions, tile roof; cost about \$50,000; T. J. Galbraith, Archt., Slaughter Bldg., Dallas, Tex., has plans in progress.*

Tex., Whitehouse—Methodist Church will erect \$10,000 building; brick, 1-story and basement, 50x50 ft.; composition roof, pine floors, stained glass, plaster, metal ceilings, hot air heat; J. H. Bothwell, Archt., Tyler, Tex., receiving bids.

Va., Norfolk—St. Luke's P. E. Church, Rev. D. W. Howard, D. D., Rector, 520 Boisheaven St., selected Cram & Ferguson, 248 Boylston St., Boston, Mass., as architects for \$300,000 building, Colonial Ave. and 15th St.; auditorium to seat 800.

W. Va., Beckley—Methodist Church purchased site for building. Address The Pastor.

City and County

Ark., Texarkana—Municipal Building—City, W. H. James, City Sec., will receive bids July 16 for Gothic type building, W. 3rd and Maple Sts., Texas side; cost \$200,000, 4 stories, 72x110 ft., tile and cement floors, concrete foundation, vaults, valut lights, ventilators, ornamental terra cotta, steel sash and trim; plans and specifications from Witt, Siebert & Halsey, Texarkana, and C. M. Page & Bro., Austin, Tex., Asso. Archts.

Fla., Fort Pierce—City Hall, Jail, Fire Station, etc.—City, care C. A. Cahow, voted \$500,000 bonds, including \$50,000 for city hall and \$30,000 for jail, fire station and incinerator.*

Ky., Hazard—Courthouse Addition—Perry County, J. A. Smith, Judge, will receive bids July 23 for remodeling and 2-story brick addition to courthouse; C. C. & E. A. Weber, Archts., Ingalls Bldg., 4th and Vine Sts., Cincinnati, O., have plans ready for bidders.*

Ky., Russellville—Community House—Logan Post No. 29, American Legion, is interested in erection of community house.

La., Shreveport—Courthouse—Caddo Parish contemplates erection of new courthouse but J. T. Bullen, Parish Engr., Shreveport, advises nothing definite so far regarding financing or plans.

Md., Baltimore—City Hall Annex, Art Museum—City, Howard W. Jackson, Mayor, is considering voting in November on loans amounting to \$26,500,000, including \$2,000,000 for municipal building as annex to City Hall and \$1,000,000 for art museum.

Miss., Biloxi—Library—Mayor J. J. Kennedy and Board of Aldermen will receive bids July 17 for municipal library, Lameuse St.; separate bids for plumbing and heating and electrical work; plans and specifications from Carl E. Matthes, Archts., Biloxi.*

Mo., Joplin—Memorial Hall—City, care Julius A. Becker, Citizens' State Bank, will receive bids July 29 for memorial hall; brick, stone, reinforced concrete and steel, 2 stories, 140x187 ft., concrete and hardwood floors, metal doors, ventilators, ornamental terra cotta, cast iron lamp standards and cast iron tripod 3.6 ft. high, cement, tile and composition roof, cost about \$190,000; plans and specifications from A. C. & A. S. Michaelis, Archts., 324 Miners Bank Bldg., Joplin, and for material men on file at office Western Contractor, Kansas City, Mo.; separate bids for electric wiring and lighting fixtures, heat-

ing and ventilating, plumbing, and acoustical treatment.*

N. C., Rutherfordton—City Hall—City plans to erect city hall for offices and fire dept. Address The Mayor.

S. C., Winnsboro—Jail—Fairfield County Jail Comsn., W. D. Douglas, member, has plans by J. J. Baldwin, Archt., Anderson, S. C., and Gaffney, S. C., for jail and jailer's residence.*

Tenn., Chattanooga—Woman's Building—City, Emil Wassman, City Commrs., is considering erecting woman's building at fair grounds or expending \$20,000 to remodel an existing structure.

Tex., Colorado—City Hall—City contemplates calling election on city hall bonds. Address The Mayor.

Tex., Houston—Library—City, O. F. Holcombe, Mayor, has low bid at \$54,990 from M. C. Parker, West Bldg., Houston, for North Side Branch Library, Heights Blvd. and 13th St.; low bid from Warren Plumbing Co. at \$1907 on plumbing and \$4453 on heating; Reed Electric Co. on wiring, \$1434; plans by W. A. Dowdy, City Archt., all Houston.*

Tex., Houston—Passenger Station—City Council, O. F. Holcombe, Mayor, plans to erect building at Wharf No. 3 for steamship passenger station.

W. Va., Farmington—Camp—Marion County plans to establish permanent camp near Farmington for boys and girls; erect dining hall and kitchen, sleeping quarters, etc.

Dwellings

D. C., Washington—Mrs. Viola I. Vrooman has low bid from C. A. Hofferberth Construction Co., Woodward Bldg., Washington, for brick residence and garage, 5623 Colorado Ave., N. W.; hollow tile alternate for back-up work, slate roofs, oak floors, hot water heat; O. Harvey Miller, Archt., McLachlen Bldg., Washington, D. C., and Bridgewater, Va.*

Fla., Coconut Grove—Hugh M. Matheson will erect 5 dwellings in Entrada; Spanish type; total cost \$100,000; Walter C. De Garmo, West Palm Beach, Fla., architect for 2, and A. C. McKenzie, 342 Madison Ave., New York City, for 3.

Fla., Hallandale—F. A. Currie is erecting 5 stucco tile dwellings in connection with development; will also erect 2-story stucco tile residence for personal use and about 30 for investment.

Fla., Jacksonville—H.C. Marsh, Pres. Marsh Motor Co., South Jacksonville, will erect residence, St. John's Ave.

Fla., Miami—Morris Solomon and Alfred H. Predinger will erect 4 stucco bungalows, S. W. 4th St.

Fla., Miami—Soms Jentz will erect \$14,000 residence, N. E. 28th St.

Fla., Orlando—Nixon Butt will erect \$13,000 residence, 315 N. Orange St.

Fla., Orlando—H. A. McDonald will erect Colonial residence, Euclid Ave.; G. E. Krug, Archt., 541 Hillcrest Ave., Orlando.

Fla., Orlando—Dr. R. P. Buckmaster, San Juan Hotel Bldg., plans to erect residence.

Fla., Orlando—A. A. Carmack will erect residence on Bailey property, Hillcrest, Concord and Broadway Sts.

Fla., Orlando—T. L. Casey will erect residence, Bailey property, Hillcrest, Concord and Broadway Sts.

Fla., Orlando—H. C. Cord, 334 E. Concord Ave., plans to erect residence.

Fla., Orlando—Carey Hand, 1306 N. Orange St., will erect residence on Bailey property, Hillcrest, Concord and Broadway Sts.

Fla., Orlando—E. G. Hauselt, Summerlin Place, plans to erect residence.

Fla., Orlando—Dr. L. C. Ingram, Clinie Bldg., plans to erect residence.

Fla., Orlando—E. C. Johnson plans to erect residence.

Fla., Orlando—Emil Metzinger, Liberty Place, will erect \$35,000 residence, Hillcrest and Broadway Sts.

Fla., Orlando—J. C. Otey, 11 W. Colonial Drive, will erect residence, Bailey property, Hillcrest, Concord and Broadway Sts.

Fla., Orlando—J. W. Rex, 26 E. Livingston St., plans to erect residence.

Fla., Sarasota—Clarence Roberts will erect Spanish type residence, Siesta Island; Mr. Roberts will also plat 42 lots of his holdings.

Fla., Seabreeze—Harry A. Horn plans to erect Spanish type residence facing Halifax River.

Fla., Seabreeze—T. J. McReynolds, Sr., plans to erect residence, Grandview Ave.

Fla., Winter Park—E. H. Bigney, Providence, R. I., reported to erect residence in fall.

Fla., Winter Park—Bishop Cameron Mann plans to erect residence, Interlaen Ave., on Laek Osceola.

Ga., Atlanta—Mrs. F. A. Boston will erect \$17,000 frame duplex residence; A. F. N. Everett, Archt., Candler Bldg., Atlanta.

Ga., Atlanta—Frank E. Butler plans to erect \$20,000 brick residence; I. Moscowitz, Archt., care Georgia Ry. & Power Co.; will probably take bids in fall.

Ga., Atlanta—John K. Homer, Hurt Bldg., plans to erect \$15,000 frame residence; Smith & Downing, Archts., Bona Allen Bldg., Atlanta; bids opened July 15.

Ga., Atlanta—Joel Hurt, Jr., will erect \$75,000 brick residence; Pringle & Smith, Archts., Atlanta Trust Co. Bldg., Atlanta.

Ga., Atlanta—T. A. Leatherman, 64 N. Pryor St., will erect \$25,000 residence.

Ga., Atlanta—H. H. McCall plans to erect \$35,000 frame residence; Burge & Stevens, Archts., 101 Marietta St., Atlanta.

Ga., Savannah—Mrs. M. W. Sexton plans to erect residence, 47th and Habersham Sts.

Ga., Savannah—Mrs. Marion T. Sharp plans to erect residence, Waters Ave. and 50th St.

Ky., Owingsville—T. S. Shroud will personally let all contracts for brick residence; 2 stories and basement, 31x54 ft., stone trim, tin roof, concrete and field stone foundation, 2 baths, 3 porches, interior tile, steel sash and trim in basement; Ed. L. Williams, Archt., Bank St., Mt. Sterling, Ky.; excavating.*

La., New Orleans—Solomon Heiman, 2031 Baronne St., will erect bungalow, Annunciation and Cadiz Sts.

La., New Orleans—Peter J. Escarra, 6435 West End Blvd., will erect 2 double cottages, Iberville and Polk Sts.; total cost about \$10,000; work to start in about 60 days.

Md., Baltimore—Jager Construction Co. will erect 5 frame dwellings, N. side Duvall Rd. near Wilcox Rd.; total cost \$18,000.

Md., Baltimore—Harry M. Nichols, 9 E. Camden St., will erect 24 two-story brick dwellings, 2500-46 W. Lanvale St.; total cost \$90,000.

Md., Baltimore—Maurice Swerdlin, 2421-B Eutaw Place, will erect 10 two-story brick dwellings near S. W. cor. Thomas Ave. and Presbury St.; total cost \$50,000.

Md., Baltimore—Govans M. E. Church, Dr. R. W. H. Weech, Pastor, York Road opp. McCabe Ave., plans to erect parsonage and

convert present parsonage into guild house and Sunday-school room; cost \$36,000.

Md., Baltimore—Jos. S. Marzak, Vice-Pres. Sec. Lion Bros. Co., Inc., Hollins and Poppleton Sts., plans erecting residence, Chancery Rd., Guilford; 2½ stories, 39x26 ft., brick; Wm. H. Emory, Archt., Union Trust Bldg., Baltimore.

Md., Baltimore—Harry F. Plaenker will erect \$30,000 residence and garage, St. George's Rd.; 2½ stories, 65x38 ft., stone; Wm. H. Emory, Archt., Union Trust Bldg., Baltimore.

Md., Baltimore—H. Frank Sener, 3500 Gwynn Oak Ave., will erect \$14,000 cottage, Murchin Rd. and Poplar Drive; 2½ stories, frame and stucco; E. G. Blanke, Archt., 532 N. Calvert St., Baltimore.

Md., Baltimore—M. L. Snyder, care Snyder & Stuhl, 219 W. Baltimore St., will erect \$18,000 residence and garage, 3406 Springdale Ave.; 2 stories, hollow tile and stucco; Stanislaus Russell, Archt., 11 E. Lexington St., Baltimore.

Md., Baltimore—J. M. Gilliee, 541 N. Fulton Ave., will erect \$25,000 brick residence and garage, St. George Rd. near Edmondson Ave.

Md., Baltimore—Wm. Shapiro, 512 Gold St., will erect 4 brick dwellings, S. W. side Cuthbert Ave., S. E. of Hayward Ave.; 2 stories, 16x30 ft., steam heat; total cost \$10,000; plans and construction by owner.

Md., Baltimore—John R. Ward, 1817 W. Baltimore St., purchased site, Copley Rd. near Liberty Heights Ave., and will erect brick semi-bungalow and garage.

Mo., Kansas City—E. A. Clarkin will erect 3 dwellings, 3919-21-23 Kenwood St.; total cost \$12,000.

Mo., St. Joseph—North St. Joseph Real Estate Loan & Investment Co. will erect 20 dwellings in Highway Addition, east of Memorial Highway.

N. C. Greensboro—J. C. Powell will erect \$10,000 residence, Madicon Ave.

S. C., Chester—Julian S. Starr, Archt. Rock Hill, S. C. advises erection of residence for Jas. M. Lathan has been indefinitely postponed; plans will be drawn later.*

S. C., Sumter—Lafaye & Lafaye, Archts., Columbia, S. C., advise D. Kerschner has decided not to build residence.*

Tenn., Nashville—A. D. Dabb, 1524 Laurel St. will erect \$10,000 brick and stone residence, Whitland Ave.; 1½ stories; O. J. Billis, Archt. Whites Creek, Nashville.

Tex., San Antonio—E. H. Dittmar, 238 Army Blvd., will erect 2-story residence in Blue Bonnett Hills.

Tex., San Antonio—Dr. T. M. Wheat, City National Bank Bldg., will erect 5-story 6-room frame or stucco residence, Woodlawn Hills.

Va., Roanoke—E. E. Howerton will erect 2 brick cased dwellings, 202-04 Wycliff Ave., South Roanoke; total cost \$10,000.

W. Va., Huntington—Bates, Frampton & Bowers, 412 Eleventh St., Huntington, advise construction of \$25,000 residence for M. Cohen has been postponed until next spring.*

Government and State

Okl., Oklahoma City—Capitol Repairs—State Board of Public Affairs will receive bids July 15 for finishing of areas, new doors, etc., at Capitol; cost about \$10,000; plans and specifications on file.

Hospitals, Sanitariums, Etc.

Fla., Miami—Victoria Hospital, Miss Louise Coldham, Supt., will erect 30-room, 3-story addition to hospital, Third St.; 2 open-air pavilions.

Fla., Miami Beach—Jas. A. Allison and Carl G. Fisher will erect Miami Beach Hospital on 5-acre tract on Allison Island; cost \$300,000 to \$350,000; 3-story, 50-room building to be erected at once; building in rear for kitchen, dormitory and operating suites; sun and shaded gardens on roof; steam heating system; grounds to be landscaped; construction on unit plan; August Geiger, Archt., Miami, will have foundation blueprints ready in about 15 days.

La., Shreveport—Shrine Hospital for Crippled Children, Forrest Adair, Sec. Board of Trustees of Shriners' Hospitals, Healey Bldg., Atlanta, Ga., plans to make improvements to building; Hentz, Reid & Adler, 92½ N. Forsyth St., Atlanta, are consulting engineers for Shrine Hospital.

Ga., Newnan—Newnan Hospital Corp. plans to erect \$100,000 hospital.

Mo., Louisiana—Dr. T. H. Wilcoxen, Bowling Green, Dr. R. Shotwell, Curryville, and Dr. P. G. Burton, New Hartford, are committee to confer with Pike County Court, Bowling Green, regarding establishment of county hospital; bequest of \$100,000 and one of \$40,000 available for hospital purposes.

Mo., St. Joseph—City, Dr. L. Beck, Health Officer, W. K. Seitz, City Engr., will open bids about Aug. 1 for vitrified brick contagious disease hospital; 2 stories, 30 to 60 beds, terrazzo floors, concrete foundation, hollow and interior tile, metal ceilings and doors, ventilators, ornamental terra cotta, steel sash and trim, wire glass, tile roof; no elevator.*

Tex., Austin—City considers calling election on \$75,000 bonds for addition to city hospital. Address W. D. Yett, Austin.

Tex., Fort Worth—Methodist Hospital Board has low bid at \$364,523 from Butcher & Sweeney for hospital, Canal, Lake, 6th and Hornsby Sts.; concrete frame, brick, stone and terra cotta exterior, 9 stories, 17,000 sq. ft. area, tile and tar and gravel roof, tile rubber, terrazzo and linoleum floors, steam heat, electric wiring, 2 elevators and 5 dumbwaiters; W. G. Clarkson & Co., Archts., First National Bank Bldg., all Fort Worth.*

Tex., Sulphur Springs—Hopkins County, R. E. Bertram, Judge, defeated \$100,000 county hospital bonds.*

Va., Galax—Dr. A. L. Jones will be in charge of hospital to be erected soon.*

Hotels and Apartments

Ala., Athens—Commercial Club authorized the president to appoint a committee to confer with Athens Hotel Co., relative to erection of new hotel.

Ark., Little Rock—W. C. Berry, 508 N. Maple St., will erect brick veneer apartment building at 3811 Prospect St.

Ark., Little Rock—J. R. Casey, 1006 Rice St. will erect \$10,000, 2-story, stucco apartment building at 3600 Prospect St.

Ark., Little Rock—A. J. Holland, 120 N. Spruce St., will erect \$18,000, 2-story apartment building at 317-23 Gaines St.

Ark., Little Rock—David C. Lang will erect \$10,000, 2-story, stucco apartment building at 111 Park Ave.

Ark., Little Rock—M. F. Lawing, 4618 T St. will erect brick veneer apartment building at 2209-11 W. 16th St.

D. C., Washington—Kaleb Apartment Co. has revised plans in progress by Stern & Tomlinson, Continental Trust Bldg., Washington, for \$200,000 apartment building at 11th and A Sts.

D. C., Washington—B. Robbins, National Metropolitan Bank Bldg., has plans by Stern & Tomlinson, Continental Trust Bldg., Washington, for \$250,000 apartment building, 17th and Kenyon Sts., N. W.

July 10, 1924.

MANUFACTURERS RECORD.

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Fla., Fort Pierce—Mrs. M. L. Almond contemplates erecting during summer a 2-story, 75-room hotel addition to Almond Building on Second St.

Fla., Fort Pierce—R. C. Erskine, Prop. Hotel Colonial, will erect 25-room addition.

Fla., Miami—Everett H. Pierson, 125 N. E. 1st St., has purchased lot on S. W. Third St., between 10th and 11th Aves., as site for 3-story, reinforced concrete and tile apartment building; construction last of July.

Fla., Miami—William Keach will erect \$25,000, 26-room, 3-story hotel building on N. E. 21st St.; column and beam construction; R. A. Preas, Archt., Miami.

Fla., Miami—Mrs. R. L. Lawrence has acquired site in Bryandale and will erect apartment dwelling in fall.

Fla., Palmetto—C. B. Scott contemplates remodeling and converting present residence into apartment house.

Fla., St. Petersburg—Lantern Lane Corp. M. F. Purnell, Pres., has plans by Geo. Feltham, St. Petersburg, for \$125,000, 35-apartment building on Beach Drive; Spanish architecture; construction in 3 weeks.

Fla., St. Petersburg—S. R. McIntosh, 249 9th Ave. N., H. D. Wallin, E-736 18th Ave. N., and others are considering plans for erection of \$350,000 6 or 7-story apartment building at Beach Drive and Second Ave.

Ga., Elberton—T. N. Colley and associates contemplate erecting \$150,000 fireproof hotel; hardwood floors, composition roof; Pringle & Smith, Archts., Atlanta Trust Bldg., Atlanta, Ga.*

La., Monroe—E. A. Frost, 351 Jordan St., Shreveport, La., has plans in progress by Mann & Stern, A. O. U. W. Bldg., Little Rock, Ark., for 7-story hotel to cost between \$650,000 and \$700,000, on Stubbs property, Gramont and St. Johns St.*

La., Shreveport—J. S. Swan, Gladston Park, will erect 2-story, brick veneer apartment building at 245-7 Kingshighway.

Mo., Kansas City—McCaules-Miller Realty Co. will erect 3-story, brick, \$50,000 apartment building at 3022 Troost St.

N. C., Asheville—LaFayette Development Co., care Jno. A. Bechtel, Langren Hotel, will have drawings and specifications Sept. 1 by Roland Green, Oates Bldg., Asheville, for \$750,000, 200-room, 4-story resort hotel; contemplate building polo grounds, golf course, etc.*

N. C., Goldsboro—W. L. Stoddart, Archt., 50 E. 41st St., New York City advises that bids will be taken from general contractors about July 10 and opened about July 30, for erection of 6-story, 80x130 ft., hotel, to cost about \$600,000.*

Tex., Austin—Miss Lenore Johnson has plans by Geo. Louis Walling, Austin, for 2-story apartment building.

Tex., Austin—Andrew Fraser, Archt. and Engr., Ardmore, Okla., will receive bids after July 15 for erecting 5-story and basement, \$90,000, 80-room, fireproof hotel building.

Tex., Dallas—R. L. Garrell, 2712 Holmes St. will erect \$14,000, 16-room, brick veneer, 8-apartment building at 5747 Richmond St.

Tex., Neches—J. A. Comeaux will erect \$12,000, 2-story, brick and concrete, 14-room apartment building; metal lath, composition floors, plaster; private plans.

Tex., San Antonio—Richey & Casey, 321 N. St. Mary's St., and Etheride Bros. contemplating erection of hotel. (See Buildings Proposed—Miscellaneous.)

W. Va., Fairmont—Fairmont Building & Investment Co., C. S. Riggs, Pres., has preliminary plans by C. H. Snider, Professional Bldg., Fairmont, for \$300,000, 5-story, 156x120-

ft., 50-family apartment building, on site of Normal School Building, Gaston Ave. and Third St.; ten 6-room apartments, twenty 5-room apartments, ten 4-room apartments, and ten 3-room apartments, all with bath; freight and passenger elevators, dumbwaiters; basement will contain space for incinerators, heating plant, laundries and quarters for engineers and janitors; 25 garages.

Miscellaneous

Ala., Montgomery—Home—Knights of Pythias contemplate raising \$50,000 for erection of second unit of home; address S. L. Johnson, Grand Chancellor, Anniston.*

Ark., Pine Bluff—Home—Jethro Walther, E. R. Fitzgerald and others, as agents of Arkansas District Council of the Assemblies of God, have purchased property at 21st and Main Sts., as site for proposed home for sick and afflicted adults and orphans.

Fla., Daytona—Motion Picture Center—R. L. Smith, Daytona, is pres. of corporation promoting development of motion picture production center, to be known as Sun City, fronting on Halifax and Tomoka Rivers, comprising communities of Ormond, Ormond Beach, Daytona, Daytona Beach and Seabreeze; plans erection of administration building, library, clubhouse, hotel, auditorium, riding academy, swimming pools, parks, riverside drives, etc.; studios to be constructed of coquina rock of Moorish design.

Ky., Louisville—Home—Kosa'r Temple A. A. O. N. M. S. care Lee G. Zinsmeister, potentate, has plans for erection of \$100,000 home for crippled children on Eastern Parkway, between Preston St. and Poplar Level Road; \$35,000 now available; address Jas. P. Gregory, Inter-Southern Bldg., member Home advisory committee.

La., New Orleans—Clubhouse—Oliver S. Livaudais, Carondelet Bldg., Alfred O. Hero, 4 Cromwell Place; Walter Castenado and Wm. Hodge, representing syndicate, have purchased property on Stella plantation in Plaquemines parish, as site for clubhouse.

N. C., Raleigh—T. E. Green, 221 W. Morgan St., will erect \$20,000 building on W. Hargett St., with day labor.

S. C., Florence—Clubhouse—Country Club, care B. W. Covington, member building committee, contemplates erection of clubhouse.

Tenn., Columbia—Clubhouse—Dr. Otis M. Trousdale and H. A. Webster are promoting the purchase of property and erection of clubhouse to cost \$40,000.

Tex., Greenville—Clubhouse—Board of Directors of Greenville Lake Club, care Jno. J. Harris, contemplates erecting clubhouse.

Tex., Kerrville—Clubhouse—Adams & Adams, Archts., Gibbs Bldg., San Antonio, will receive bids after July 2 for erection of \$18,000, 1-story, frame and stucco clubhouse for Kerrville Country Club.

Tex., San Antonio—Richey & Casey, 321 N. St. Mary's St., and Etheride Bros. have sales contract on 8200-acre Stowers Ranch property, north of San Antonio, between Fredericksburg and Blanco Roads, and will build 60-ft. dam to form lake; country club, hotel and various other improvements.

W. Va., Fairmont—Clubhouse—Christopher Columbus Society, Jas. Pacifico, Pres., opened bids July 8 for erecting 2-story brick clubhouse to cost from \$14,000 to \$16,000.

Railway Stations, Sheds, Etc.

Mo., Sikeston—St. Louis-San Francisco Rwy Co., F. G. Jonah, Ch. Engr., St. Louis, is reported to contemplate erecting hollow tile and stucco, 173x42 ft. passenger station.

Tenn., Humboldt—Louisville & Nashville

Ry. Co., W. H. Courtney, Ch. Engr., Louisville, Ky., and Mobile & Ohio R. R. Co., B. A. Wood, Ch. Engr., St. Louis, Mo., are reported to contemplate erecting union station.

Schools

Ala., Anniston—City voted \$100,000 school bonds; address J. L. Wilklow, Mayor.*

Ala., Brewton—Board of Education rejected all bids for erecting high school building; will ask for new bids.*

Ala., Fairhope—Chamber of Commerce is promoting erection of high school building.

Ala., New Hope—Madison County Board of Education, S. R. Butler, Supt., Huntsville, contemplates erecting annex to school.

Ala., University—Phi Gamma Delta fraternity of University of Alabama is taking bids for \$75,000, 3-story, gray stone home to accommodate 50 men.

Ark., Jonesboro—Trustees of Jonesboro Special School District sold \$80,000 worth of bonds for rebuilding Woodland School and North Jonesboro ward school.*

Fla., Molino—Escambia County Board of Public Instruction, Wm. Tyler, Supt., Pensacola, will open bids July 28 for erecting 3-room addition to school building; plans and specifications may be obtained from W. D. Willis, Archt., Blount Bldg., Pensacola.

Fla., Ocala—Board of Commrs. of State Institutions, Tallahassee will receive bids at Governor's office until July 11 for erection of dairy building at Florida Industrial School for Colored Girls; plans and specifications may be obtained from Geo. MacKay, Archt., Ocala.

Fla., St. Petersburg—Pinellas County Board of Public Instruction, R. S. Blanton, Sec., Clearwater, will open bids July 15 for erecting 6-room school building in District No. 3; plans and specifications on file at office of Supt., Clearwater; F. N. Robinson, Trustee, 209 Hall Bldg., St. Petersburg; Frank F. Jonsberg and Jas. H. Richie, Archts., St. Petersburg.

Ga., Atlanta—Board of Trustees Georgia School of Technology, N. E. Harris, Chmn., has plans in progress by Pringle & Smith, Atlanta, Ga., for 3-story addition to Chemistry Building to cost about \$75,000 to \$100,000; slate roof, concrete flooring, cement foundation, hollow tile, metal doors, ventilators, steel sash and trim, ornamental terra cotta, rolling partitions. Address Dr. M. L. Brittain, Pres.

Ky., Bowling Green—West Kentucky Normal School approved sketches by A. Ten Eyck Brown, Forsyth Bldg., Atlanta, Ga., for \$200,000, 3-story, 60x200 ft., brick and limestone trim training school; wood floors, concrete foundation, flat tar and gravel roof, hollow tile, interior tile, plaster board, ventilators, vaults, metal doors, wire glass, steel sash and trim.

Ky., Catlettsburg—Board of Education, J. T. Miracle, Supt., formulated plans for improvements to 3 ward schools.

La., Covington—St. Tammany Parish School Board, Elmer E. Lyons, Sec., will open bids July 10 for alterations to brick high school building; W. T. Nolan, Archt., Canal-Commercial Bldg., New Orleans.

Miss., Jackson—College of the Mississippi Methodist Conference, Dr. D. N. Key, Pres., retained E. S. Draper, Landscape Archt. and Engr., 101 Marietta Bldg., Atlanta, Ga., to prepare plans for future development of Millsaps College campus, which will include a new library, physical education building, girls' dormitory, science building, president's home, etc.; plans for Carnegie-Millsaps Library have been completed by Harry Austin, Jackson, Miss.*

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Mo., Clayton—Price District School Board has plans by Study & Farrar, 1363 Arcade Bldg., St. Louis, Mo., and will soon award contract for 1-story and basement, \$50,000, 80x60 ft., reinforced concrete, wall bearing school building at Price Lane and Clayton Road; concrete, maple and terrazzo floors, concrete foundation, tile roof, hollow tile, interior tile, metal ceilings, ventilators.*

Mo., Columbia—University of Missouri, care Edward E. Brown, Bus. Mgr., announced plans for converting Lathrop Hall into Fine Arts Building.

Mo., New Haven—Board of Education, A. J. Sheible, Sec., will open bids July 14 for erecting 47x93 ft., 1-story and basement school building; for plans and specifications address Sec.*

N. C., Greensboro—Guilford County Board of Education approved plans by Raleigh James Hughes, American Bank Bldg., Greensboro, and will soon award contract for brick over hollow tile, 6-classroom, library and superintendent's office school at Hilltop and 4-room addition to Alamance and 2-room addition to Pomona negro school.

N. C., Red Springs—Red Springs voted \$75,000 bonds for erecting high school building; Archt. not selected; address Ernest Graham, Chmn. Red Springs Graded School.*

N. C., Rutherfordton—Caroleen and Henrietta voted to sell \$150,000 bonds for erecting consolidated school, erecting building in Caroleen and repairing and enlarging Henrietta building; address Rutherfordton County Board of Education, Rutherfordton.

N. C., Salemburg—Pineland School for Girls contemplates erecting \$30,000, 2-story, brick walls school building; pine and concrete floors, concrete foundation, plaster board, interior tile, vaults, ventilators, wire glass, ornamental terra cotta; Ernest Lester Culbreth, Consrt. Engr., Durham, N. C.; address Rev. W. J. Jones.*

Okl., Collinsville—Board of Education, J. W. Newland, Clerk, opened bids for erection of \$25,000, brick and frame, 1-story, 70x120 ft. gymnasium; Hampton & Hamilton, low bidders; wood and concrete floors, concrete foundation, asphalt roof, hollow tile, ventilators; E. K. Campbell Heating Co., Oklahoma City, low bidder of fan system hot air heating; Aeme Wiring Co., low bidder on wiring and fixtures; A. F. Erickson, low bidder on plumbing for showers, toilets and gas fitting; H. H. Maher Co., Archt., 237 Lynch St.; all Tulsa, Okla.*

Okl., Hugo—Old Goodland Indian School, S. B. Spring, Supt., contemplates expending \$25,000 for erection of additional buildings.

S. C., Greenville—Furman University, W. J. McGlothlin, Pres., will soon take bids for erection of \$30,000 Webb Memorial Infirmary.*

S. C., Horrell Hill—Trustees of Horrell Hill School District will open bids July 8 for erection of grammar school; plans and specifications may be obtained from J. B. Urquhart, Archt., Palmetto Bldg., Columbia, S. C.

Tenn., Chattanooga—Miss Tommie Duffy, 611 Palmetto St., has plans by C. E. Bearden, 1st National Bank Bldg., Chattanooga, for \$12,000, 2-story, brick walls addition to private school, 611 Palmetto Ave.; hardwood floors, enlargement of study hall and addition of 2 rooms; bids asked on desks.

Tenn., Greenville—Board of Education, T. E. Biddle, Chmn., will soon select site for school building; recently voted \$100,000 bonds.*

Tenn., Jackson—Epworth League, Robt. A. Clark, Pres., 165 S. Cooper St., Memphis, will undertake campaign to raise \$25,000 for

erection of dormitory on Lambuth College campus.

Tex., Austin—University of Texas contemplates improvements to buildings on campus during summer; additions will be erected to J. hall and to cafeteria.

Tex., Bono—Board of Education opened bids July 5 at Courthouse, Cleburne, Tex., for erecting brick and concrete, 7-room and auditorium school building; R. S. Glynn, Archt., Cisco, Tex.; address V. R. Pinnel, County Supt., Cleburne.*

Tex., Corpus Christi—Board of Trustees contemplate calling election to vote \$125,000 bonds for school improvements.

Tex., Jayton—Trustees of Jayton Independent School District will open bids July 12 to erect 10-room, auditorium and study hall high school building; separate bids on plumbing and heating; plans may be had from J. L. Scott, Archt., Abilene, Tex.

Tex., Karnes City—Karnes City Independent School District voted \$40,000 bonds for erecting 2-story, brick school building; concrete foundation; will open bids July 25; Henry T. Phelps, Archt., Hicks Bldg., San Antonio, Texas. Address S. A. King, Pres. Board of Trustees.*

Tex., Lubbock—Texas Technological College Board of Trustees, Amon G. Carter, Pres., has authorized Sanguinet, Staats & Hedrick, 1st National Bank Bldg., Fort Worth; Wm. Ward Watkins, Scanlan Bldg., Houston, Archts., and Robert & Co., Tuft Bldg., Atlanta, Ga., Consrt. Engr., to go ahead with plans for following additional buildings: stock judging, girls' dormitory, agricultural building, textile and engineering building and power plants; will let contract Aug. 27 for erection of livestock judging building.

Tex., Palestine—City voted \$110,000 bonds for erection of Junior High School; address School Board.*

Tex., Paradise—School Board, W. D. Jones, Sec., and C. M. Love & Co., Archts., 304 South Florence, Fort Worth, will receive bids until July 14 for erection of 2-story, brick school building.

Tex., Port Neches—Port Neches District voted \$140,000 bonds for erecting brick and concrete Junior High School; address Board of Education; Page Bros., Archts., Austin.*

Tex., Prairie Lee—Prairie Lee Independent School District will vote July 15 on \$15,000 school bonds; address Pres., Board of Trustees.

Tex., Rio Hondo—Rio Hondo Independent School District will open bids July 14 for erection of \$50,000, 1-story, brick and tile, 16-room school building; y. p. floors; cost of furnishings \$15,000; Elwing & Mulhausen, Archts., Harlingen, Texas.*

Tex., Roby—Roby School District voted \$40,000 bonds for erecting 2-story, brick and concrete school building; address Board of Education.

Tex., San Marcos—Southwest Texas Teachers' College contemplates raising \$15,000 for improvements and enlargement at athletic field.

Tex., Waco—City voted \$100,000 bonds for purchase of site and erection of building for Bell's Hill School, \$80,000; replacing plumbing, \$8000; new flooring \$6000; repairs to roof, etc., \$6000. Address School Board.*

Va., Christie—H. J. Watkins, Supt. of Schools, Halifax, is promoting erection of school building for Croatan Indians.

W. Va., Charleston—Board of Education Charleston Independent School District will expend \$30,861 for fireproofing 5 rooms each at Garnett and Lincoln School buildings.

W. Va., Gallagher—Board of Education of

Cabin Creek District opened bids July 5 for erecting 6-room building on Paint Creek; plans by Mr. Hubbs, State Archt., Charleston. Address Edward Smith, Sec. Board of Education, Box 29, East Bank, W. Va.

W. Va., Westmoreland—Board of Education, J. H. Prose, Pres., announced that calling of school bond election will be deferred for several weeks.

Stores

Fla., Miami—O. E. Hainlin and D. Earl Wilson will erect 2-story, 75x100 ft. store and apartment building, W. Flagler St. and 17th Ave.; J. C. Gault, Archt., Miami.

Fla., New Smyrna—C. B. Lyons contemplates erecting 2-story, brick or stucco store and apartment building on Flagler Ave.

Fla., Orlando—Fariss-Whitehead Co. will erect 2-story building on Central Ave.

Fla., Orlando—Kenney & Rylander will erect \$11,000 addition to building, Orange and Washington Sts.

Fla., West Palm Beach—J. B. McGinley announced plans for erection of \$75,000 store building at Royal Palm Way and county road.

Ky., Whitesburg—Sam Collins will construct business building; contract at once.

La., Shreveport—Chas. Papa will erect \$22,807, 2-story brick store building at 1002-04 Spring St.

La., Shreveport—W. F. Stoddart will erect 1-story brick building at 442-4 Olive St., to cost about \$10,000.

Md., Cumberland—Frank Sognia is erecting with day labor, a 2-story, \$14,000, 42.6x59 ft., brick store and residence; ply roof, concrete foundation, maple and wood joist flooring; no sub contracts let; Jno. B. Brower Jr., Archt., Cumberland.

Miss., New Hebron—Berry & Dampeer Co. has been incorporated by J. J. Berry and J. D. J. O. and Clyde Dampeer, and contemplates replacing present building on Main St. with brick structure.

Mo., St. Joseph—F. A. Davis will repair and remodel store building on Illinois Ave.

Mo., St. Louis—Albert von Hoffman, Pres. von Hoffman Press, has plans by E. Priesler, St. Louis, for 7-story building at Ninth and Spruce Sts. and 5-story building at 11th St. and Clark Place; building at Ninth and Spruce Sts., will be 145x127 ft., reinforced concrete, with openings of steel sash on 4 sides; passenger and freight elevators and conveyors, oil-heating system, recreation and dressing rooms with showers for employees; building at 11th St. and Clark Place will be reinforced concrete, steel sash windows for business exchange, jobbing or brokerage purposes.

Okl., Oklahoma City—Jno. H. Shirk, 210 E. Park Ave., will erect brick business building at 1803-11 University Place.

Tenn., Gallatin—B. D. Suddarth & Co. contemplates erection of 2-story and basement, brick and stone department store building, to cost from \$15,000 to \$20,000; Geo. D. Waller, Archt., Independent Bldg., Nashville, Tenn.

Tenn., Greeneville—J. A. Susong announced plans for erecting 3-story, store and office building on Main St.*

Tenn., Johnson City—A. B. Crouch contemplates erecting business block on site of city jail.

Tex., Austin—Sam Sparks and M. C. Parish will have plans first of July by Geo. Louis Walling, Austin, for erection of store building.

Tex., Dallas—Fakes Furniture & Carpet Co., W. H. Wray, Pres., will have plans in 90 days by C. D. Hill & Co., Central Bank

Bldg., Dallas, for 62x200 ft., 8 and possibly 12-story business building at 1217-19 Elm St.; building and site will cost about \$750,000; foundation and walls will be built to carry 16-story building.

Tex., Dallas—T. A. Harris & Co., Main St., Arthur L. Kramer, Pres., has plans by Lang & Witchell, American Exchange Bank Bldg., Dallas, and will let contract in 3 weeks for 7-story and basement annex to cost \$100,000; elevators; Gothic design front.

Tex., Greenville—S. B. Brooks contemplates erecting building to replace structure destroyed by fire; to be occupied by Perkins-Dry Goods Co.

Warehouses

Ala., Mobile—City plans to spend \$10,000 for warehouses and other facilities for handling cargoes on docks; Gen. Wm. L. Selbert, chairman-engineer; Judge Thos. C. McColla is commission attorney.

Ga., Jackson—Butts County Products Co., S. S. Copeland, Mgr., contemplates rebuilding storage house recently damaged by fire.

Md., Baltimore—Wm. A. Conway, 626 Forrest St., will erect \$15,000, 32x72x40 ft., 3-story, brick warehouse at 630-12 Forrest St.

S. C., Florence—Fred Germany & Co. have plans by Wilkins & Hopkins, Florence, for \$18,000, 1-story, 52x120 ft., mill construction warehouse; composition roof, metal doors, vaults, ventilators, steel sash, wire glass.

Tenn., Greeneville—W. H. Reeves, J. A. Ruch and others have subscribed funds for \$12,000, concrete block prize house for use of American Tobacco Co., 111 5th Ave., New York City.

Tenn., Greeneville—Liggett & Myers Tobacco Co., 212 Fifth Ave., New York City, contemplates erecting tobacco prize warehouse.

Tex., Temple—L. Harrington & Co., Houston Bldg., San Antonio, are preparing plans for \$18,000, 58x143-ft., reinforced concrete, brick and tile warehouse building for Hobbs Bros.; plans will be ready for figures after July 1.

W. Va., Wheeling—Pure Oil Co. will erect \$40,000 storehouse.

tract to D. P. Liles for building. Address The Pastor.

Ala., Troy—Methodist Church, Dr. E. M. Wright, member, is repairing building; cost about \$15,000.

Fla., Jacksonville—St. Joseph's Church will erect \$25,000 building, Spearing St. near Odessa St.; 2 stories, stone; G. E. Curry, Contr., 935 Forest St., Jacksonville.

Md., Baltimore—St. Ann's R. C. Church, Greenmount Ave. and 22nd St., Rev. Jos. Mallon, Pastor, will alter and erect 3-story stone, 24x16-ft. addition to building; cost \$20,000; Timothy D. Keating, Contr., 2121 W. Baltimore St., Baltimore.

Md., Baltimore—Third United Brethren Church, Rev. Paul E. Holderraft, Pastor, 1800 W. Lombard St., will erect mission church, Wilkens and Leeds Ave., Ridgewood, Baltimore, to be called Trinity U. B. Church; cost \$45,000, 57x57 ft., brick, veneer or shingle, hot-water heat; Gunnar Anderson, Contr., care 1915 Hollins St., Baltimore.

Mo., Kansas City—South Prospect M. E. Church, care W. D. Kelley, 4033 Highland Ave., is erecting \$15,000 building by day labor; 1 story, 120x72 ft., stone and brick, stone foundation, hollow tile, concrete and hardwood floors, ventilators, ornamental terra cotta; Ernest O. Brostrom, Archt., 623 Reliance Bldg., Kansas City.*

N. C., Shelby—First Presbyterian Church let contract at \$24,800 to J. P. Little & Co., Independence Bldg., Charlotte, N. C., for Sunday school addition; plumbing to J. G. Dudley, Shelby, at \$2600; 18 classrooms, auditorium to seat 300, library, etc.*

S. C., Aiken—First Presbyterian Church, P. F. Henderson, Chmn. Bldg. Comm., let contract at \$38,000 to O. L. Steifel, Aiken, for brick and hollow tile building; tin roof, pipe organ; Willis Irvin, Archt., Empire Bldg., Augusta, Ga.*

S. C., Charleston—Carl Sheet Metal Works has contract for gas heating and plumbing for parish house addition to St. Michaels Church; electric work to Southern Electric Co.; building, brick, 2½ stories, 32x92 ft., concrete and wood floors, concrete foundation, slate roof, cost \$25,000; Simons & Lapham, 42 Broad St., Archts.; Cheves-Oliver Construction Co., 54 Broad St., Contr., all Charleston.*

S. C., Inman Mills—Inman Mills Baptist Church, Rev. A. P. Jones, Pastor, let contract to E. J. Gibson, 144 Rutherford St., Greenville, S. C., for \$20,000 brick veneer building; 2 stories, 40x70 ft., hollow tile, hardwood and concrete floors; heating, probably hot air system, not let; A. J. Sams, Archt., Columbia, S. C.*

Tenn., Chattanooga—Ridgedale Baptist Church, Dodds Ave., let contract to Martin & Warlick, James Bldg., for \$30,000 building; J. C. Gauntt, Archt., Missionary Ridge, both Chattanooga.

Tex., Alto—Baptist Church is erecting building. Address The Pastor.

Tex., Lubbock—Church of Christ let contract for \$50,000 brick building on Broadway. Address The Pastor.

W. Va., Point Pleasant—Baptist Church let contract to Martin, Orr & Martin, Archts. Contrs., 190 E. North Broadway, Columbus, O., for brick and limestone Gothic type building; 1 story and basement with annex; Omar E. Leech, Columbus, to be in charge of constr.

City and County

Ala., Gadsden—Almshouse—Etowah County will erect \$20,000 almshouse at county farm, Hokes Bluff Rd.; 3 wings, 18 rooms for inmates and quarters for superintendent and

BUILDING CONTRACTS AWARDED

Association and Fraternal

N. C., Shelby—Ancient Free and Accepted Masons, C. S. Young, Chmn. Bldg. Comm., desires sub-bids on elevators, seating and electric fixtures for \$125,000 Masonic Temple, Washington and Warren Sts.; brick, 4 stories, 60x100 ft., concrete and best gum floors, concrete foundation, metal doors, vaults. Barrett specification roof; Willard G. Rogers, Archt., Trust Bldg., Charlotte, N. C.; Lutz & Webb, Shelby, contr. at \$75,790; contracts for heating and plumbing lately noted let.*

S. C., Orangeburg—Ancient Free and Accepted Masons let contract at \$41,000 to J. T. Dabbs for brick, stone and frame building; 3 stories, 55x105 ft., hardwood and concrete floors, concrete foundation, hollow tile, ventilators, tin roof; J. B. Urquhart, Archt., both Columbia, S. C.; low pressure steam heating and plumbing to Mr. Brice, Florence, S. C.*

Bank and Office

Fla., Mulberry—Bank of Mulberry, L. N. Pipkin, Pres., let contract at \$30,000 to Standard Engineering Co., Tampa, Fla., for building, S. Polk Ave. and Wuthrich St.; 2 stories, 65x70 ft., buff brick.

Fla., Tampa—Beach Park Co., 2nd floor Ferlita Bldg., is remodeling ground floor of Warner Bldg., Lafayette and Ashley Sts., for company's offices.

Ga., Atlanta—J. L. Logan Realty & Trust Co. has started remodeling first unit of Wellington Apartments, Houston and Ivy Sts., for Dentists' Bldg.; fine interior with white tile; accomodate 20, install electric and hydraulic apparatus and other equipment; rooms for medical and surgical specialists, co-operative laboratory and supply dept. for dental instruments and supplies in addition to 20 offices; A. Ten Eyck Brown, Archt., Forsyth Bldg., Atlanta; financing by Southern Dental Syndicate.

Ga., Augusta—Georgia Railroad Bank, Hugh H. Saon, Vice-Pres., let contract to C. H. Van Ormer, Herald Bldg., for \$75,000 branch bank, Broad St., to be called Branch A; 40-ft. frontage; Scroggs & Ewing, Archts., Empire Bldg., all Augusta.*

Ga., Canton—Bank of Canton let contract to Chas. Barnhart for \$30,000 bank building; 1 and 2 stories, 26x78 ft., marble, hardwood and concrete floors, brick foundation, gravel roof, hollow and interior tile, metal doors,

vaults, ventilators, ornamental terra cotta, steel sash and trim, wire glass; E. C. Seiz, Archt., 43½ Peachtree Rd., Atlanta, Ga.*

Ga., Moultrie—Jack Corbin, Moultrie, has contract for electrical work in brick and stone bank, store and office building to be erected by A. Huber for Moultrie Banking Co.; tile floors, concrete foundation, interior tile, metal doors, vaults, ventilators, steel sash and trim; T. F. Lockwood, Archt., Murrah Bldg., Columbus, Ga.*

Ga., Rome—Otis Elevator Co., New York City, has contract to install elevator in bank and office building being remodeled at cost of \$75,000 by Chas. Blackstock, Rome, for First National Bank; all contracts let; C. E. Frazier, Archt., Candler Bldg., Atlanta, Ga.*

Md., Baltimore—Chesapeake Bank of Maryland, J. Monroe Holland, Pres., North Ave. and Ellamont St., will alter and erect additions to building, 7 St. Paul St., for Branch Bank, after plans by Clyde N. and Nelson Friz, Lexington Bldg.; Price Construction Co., Contr., Maryland Trust Bldg., both Baltimore.*

Tenn., Pulaski—Citizens' National Bank let contract to J. M. Gladdish, Pulaski, for alterations and additions to building; cost \$30,000, brick and stone; bank doors and vault fixtures to H. H. Boyd Co., Monroe, La.; Marr & Holman, Archts., Stahlman Bldg., Nashville, Tenn.*

Tex., Brownsville—State National Bank, J. B. Scott, Pres., let contract to Jay Depuy, Bedell Bldg., San Antonio, Tex., for 5-story bank building; cost about \$120,000, brick and concrete, 50x120 ft.; wiring, Echoeder Electric Co., San Antonio, \$5200; plumbing and heating, W. H. Putegnat & Co., Brownsville, total \$13,719; elevators, Otis Elevator Co., New York City, \$9080; Atlee B. & Robt. M. Ayres, Archts., 626-27 Bedell Bldg., San Antonio, are receiving bids for bank fixtures and finishing banking room.*

Va., Middleburg—Mosler Safe Co., Hamilton, O., has contract for vault equipment in 1-story bank building under construction by Middleburg State Bank; stone work let, other sub-contracts not let; O. Harvey Miller, Archt., McLachlen Bldg., Washington, D. C., and Bridgewater, Va.*

Churches

Ala., Brewton—Methodist Church let con-

* In writing to parties mentioned in this department it will be of advantage to all concerned if the Manufacturers Record is mentioned.

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matrons; heating plant, electric lights, running water; W. H. Mayden, Contr., Gadsden.

Fla., Bartow—Municipal Auditorium—City, R. B. Huffacker, Mayor Commr., let contract at \$49,000 to W. C. Robertson & Co., Bartow, for municipal auditorium, Florida Ave. and Wabash St.; accommodate 1200, including balcony, 75x125 ft., concrete floors, hollow and interior tile, composition roof; stage equipment, heating, ventilating, etc., about \$11,000; W. B. & W. D. Talley, Archts., Lakeland, Fla.*

Fla., Cocoa—Fire Station—City, R. R. Guice, Dept. Clk., let contract to Marshall Jackson Co., Lakeland, Fla., for \$10,000 fire station; 2 stories, concrete floors, hollow tile, composition roof; R. W. Rummell, Archt., Cocoa; clearing ground.*

Fla., Perry—City Hall Remodeling—City let contract to C. H. Turner to remodel and improve city hall. Address The Mayor.

Ky., McKee—Courthouse—Jackson County, C. P. Moore, Judge, let contract at \$47,400 to W. B. Catching, London, Ky., for brick courthouse; 2 stories, 55x98 ft., wood floors, stone foundation, composition roof; date of opening bids for equipment, furnishings, etc., not set; Milburn, Heister & Co., Archts., Union Savings Bank Bldg., Washington, D. C., and Durham, N. C.*

Mo., Benton—Courthouse Repairs—Scott County let contract to Gerhardt Construction Co., 6 N. Sprigg St., Cape Girardeau, Mo., for repairs to courthouse; cost \$15,000.

N. C., Asheville—Municipal Building—City, John H. Cathey, Mayor, let contract at \$15,000 to J. M. Geary, 124 Haywood St., to supervise construction of \$300,000 municipal building to house city market, fire and police stations and jail, Market Square; 2 stories and sub-basement, 230x140 ft., fireproof; Ronald A. Greene, Archt., Oates Bldg., both Asheville.

Dwellings

Fla., Hollywood—Mr. Kadon, Toledo, O., will erect residence, Hollywood Blvd. west of Dixie Highway; O. M. McCombs & Co., Contrs., Hollywood.

Fla., Hollywood—Edw. J. Ward will erect two \$7000 bungalows; O. M. McCombs & Co., Contrs., Hollywood.

Fla., Jacksonville—A. F. Churchwell, 1454 Riverside Ave., let contract to J. C. Hind for Italian villa in Avondale; 2 stories, brick veneer; 2-story brick garage and servants' quarters; Marsh & Sasselby, Archts., West Bldg., Jacksonville.

Fla., Jacksonville—S. J. Brown let contract to P. Hakkainen for 1-story frame stucco residence, Lydia St.

Fla., Jacksonville—J. H. Churchwell, 1663 Riverside Ave., let contract to J. C. Hind for Italian villa in Avondale; 2 stories, brick veneer; 2-story brick garage and servants' quarters; Marsh & Sasselby, Archts., West Bldg., Jacksonville.

Fla., Palmetto—Mrs. T. R. Robinson, Terre Ceia, Fla., let contract to T. G. Earle, Palmetto, for \$10,000 residence.

Fla., Miami—H. D. Sutell let contract for \$11,000 residence, N. E. 43rd St., to Sutell & Fox; Spanish type; J. P. Turner, Archt., Miami.

Fla., Miami Beach—Mrs. Lillian Emory, 1105 Meridian Ave., let contract to R. W. Edholm for concrete block residence, 37th St. and Prairie Ave.

Fla., New Smyrna—W. H. Newell will erect 4-room residence, Orange and Douglass Sts.; 36x52 ft.; Fiveash & Meares, Contrs., New Smyrna.

Fla., Ortega—Col. Raymond C. Turck, State Health Officer, will erect Spanish type residence; weight-bearing hollow tile, stucco finish, tile patio, imported Spanish tile and quarter-sawed oak floors, Cuban tile roof; swimming pool, 600-ft. pier; Marion Sims Wyeth, Archt., Palm Beach, Fla., and New York City; W. T. Hadlow, Baldwin Bldg., Contr., Jacksonville.

Fla., Stuart—L. A. Brown will erect 2 dwellings; Robb Construction Co., Contr., Stuart.

Fla., Stuart—W. H. Roat will erect residence, Highlands Division; Robb Construction Co., Contr., Stuart.

Fla., Stuart—Arthur Thornton will erect residence, Osceola Ave.; John Michelas, Contr., Stuart.

Fla., Vero—T. E. Harrison, Archt.-Contr., will erect 25 Spanish type dwellings.

Fla., Winter Park—Dr. Walter B. Riggs is erecting residence, Golfview Terrace.

Ga., Atlanta—C. A. Bickerstaff, Hurt Bldg., let contract to J. S. & C. R. Collins, Atlanta Trust Co. Bldg., for \$20,000 brick residence; 2 stories, oak and concrete floors, concrete and brick foundation, slate roof, ventilators, Warren Webster vapor system of heat; Ivey & Cook, Archts., Candler Bldg., all Atlanta, Address Contrs.

Ga., Atlanta—M. S. Mentzer, 660 Ponce de Leon Ave., let contract to King Bailey, Healey Bldg., for \$19,000 brick residence; W. L. Felch, Archt., Bona Allen Bldg., both Atlanta.

Ga., Atlanta—J. M. Muldow will erect residence; J. H. Jordan, Archt., Healey Bldg., Atlanta; day labor.

Ga., Atlanta—E. W. Romberger, Pres. Blue Diamond Tile Co., Bona Allen Bldg., let contract to Shelverton Construction Co. on cost plus basis for \$18,000 face brick and hollow tile residence; slate roof, 2 stories and basement, 3100 sq. ft., oak, tile terrazzo and concrete floors, concrete and hollow tile nad brick foundation, steel sash and trim; furnishings, equipment, etc., \$8000; O. J. Southwell, Archt., Hass-Howell Bldg., both Atlanta.

Ga., Savannah—Chatham Land & Hotel Co., National Bank Bldg., let contract to S. S. & R. W. Ellis, 409 E. 49th St., Savannah, for 2 additional dwellings, 47th St. near Harmon St.; plans to erect about 25 dwellings by October.

Ga., Waynesboro—J. C. Andress, W. O. Gresh and Chas. Evans are erecting dwellings.

La., New Orleans—Eureka Homestead Society will erect \$13,500 building, Peters Ave. and Story St.; Chas. Pfister, Contr., 5030 Magazine St., New Orleans.

La., New Orleans—Pierre Villere will erect \$12,587 residence, Penniston St. near St. Charles Ave.; Denegre & Woodward, Inc., Contrs., Louisiana Bldg., New Orleans.

La., New Orleans—Francis C. Morere, 8013 Nelson St., is laying foundation of \$22,000 frame quadruplex residence, Carrollton Ave. and Nelson St.; 2 stories, 5 rooms and bath in each section, oak, rift pine and concrete floors, concrete foundation, slate roof, metal ceilings, interior tile, ventilators; heating and plumbing not let; Armstrong & Koch, Archts., Audubon Bldg.; Denis & Handy, Contrs., Canal-Commercial Bldg., both New Orleans.*

Mo., St. Louis—H. Tacke, 5149 Rosa St., will erect 6 brick dwellings, 5157-5163 and 5125-29-31 Eichelberger St.; 2 stories, 23x44 ft. and 23x50 ft., asphalt shingle roofs, hot-air heat; total cost \$24,000; H. Hinrichs, Jr., Contr., 1008 Loughborough St., St. Louis.

N. C., King—Mrs. Elsie Moser will erect 8-room residence, Main St.; H. L. Kirby, Contr., Winston-Salem, N. C.

N. C., Raleigh—John F. Danielson, 122 Hillcrest St., will erect \$10,000 brick residence, Cooper Drive; construction by day labor.

N. C., Raleigh—Scott & Sheets will erect \$19,000 brick residence, Holt Ave.; H. E. Satterfield, Contr., Groveland Ave., Raleigh.

N. C., Raleigh—Dr. Louis N. West, Citizens' Bank Bldg., will erect \$10,500 frame residence, St. Mary's St.; C. F. Cutts, Contr., Capital Club Bldg., Raleigh.

Okl., Ardmore—Miss Ola Hollaway let contract at \$23,000 to B. H. Corlew for brick, tile and concrete residence; 2 stories and part basement, 36x80 ft., reinforced concrete foundation, Birds built-up and Decks tin roof, oak floors, yellow pine trim, hollow tile; electric fixtures not in general contract; E. S. Boze, Archt., both Ardmore.*

Okl., Skiatook—Sylvester Tinker is erecting \$25,000 residence.

S. C., Aiken—Miss Bertha Estey, Putney, Vt., let contract to Otis L. Steife for \$12,000 residence, Florence St.

Tenn., Chattanooga—G. O. Sanders, 816 Lindsay St., will erect 7 double-frame dwellings, E. side Baldwin Sts., near 22nd St.: total cost \$14,000; 6 rooms, 26x47 ft., wood floors, brick foundation, composition roof, plans and construction by owner.

Tenn., Nashville—J. J. Bevington, 805 Nineteenth Ave., South, let contract to J. B. Regen, 434 Deaderick St., for \$10,000 residence; 3 stories, brick walls, slate roof; plumbing and heating to O. K. Shop; Donald W. Southgate, Archt., Cumberland Presbyterian Bldg., all Nashville.*

Tenn., Nashville—Ed Sulzbacher, Stahlman Bldg., will erect \$20,000 residence, Belle Meade Park; 2 stories, brick and stucco; Tisdale, Stone & Pinson, Archts., 418-19 Independent Life Bldg.; Morris Lightman, Contr., 2127 Carlton Ave., both Nashville.

Tex., San Antonio—T. W. Masterson let contract to C. H. Brent, both Alamo National Bank Bldg., San Antonio, for \$45,000 residence, Oakmont Addition; 2 stories and basement, tile and stucco or brick, slate roof; Thompson & Swaine, Archts., 1203 Southwest Life Bldg., Dallas, Tex.*

Government and State

Tex., Galveston—Coast Guard Station, Coast Guard Headquarters, Darby Bldg., F. C. Billard, Rear Admiral, U. S. Coast Guard, Commandant, Washington, D. C., has bid at \$44,800 from J. M. Landrum, 828 F St., Galveston, for dwelling and accessories for Aransas Coast Guard Station, Tex.*

Tex., Weslaco—Experiment Station—Valley Experiment Farm, near Weslaco, let contract for buildings, including dwelling for resident manager, 2 tenant houses, barns, etc.

W. Va., Jackson Mills (P. O. Weston)—Marion County, W. E. McComas, County Agricultural Agent, is erecting cottage at State 4-H Camp for boys and girls; title to vest in State upon completion.

Hospitals, Sanitariums, Etc.

Mo., St. Louis—Board of Public Service, 208 City Hall, let contract at \$58,836 to E. Steininger Construction Co., Laclede Gas Bldg., for 2-story, reinforced concrete, brick, stone and steel kitchen at Robert Koch Hospital; L. R. Bowen, Archt.-Engr., 301 City Hall.

N. C., Asheville—Clarence Barker Memorial Hospital is remodeling and erecting 12-room addition to building; cost \$25,000 to \$30,000; L. L. Merchant, Contr., 290 Biltmore Ave., Asheville.

Okl., Fort Sill (Ind. Branch Lawton)—National Construction Co., Lawton, desires sub-bids on metal lath, tile roofing and hollow tile for \$30,000 stone and concrete hospital ward for Government; 2 stories, 34x48

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ft., cement floors, stone foundation, hollow and interior tile, ventilators, tile roof; Dunham system of heat and plumbing in general contract; plans by owner.*

S. C., Newberry—A. F. Bush, Newberry, has contract at about \$9000 for plumbing in 2-story hospital building to be erected by W. T. Livingston, Newberry, for Newberry County Hospital Assn. Geo. B. Cromer, Pres.; contract for electric fixtures lately noted let; Jac. C. Hemphill, Archt., Greenwood, S. C.*

S. C., State Park—State Board of Health, J. A. Hayne, M. D., Columbia, S. C., let contract at \$36,328 to J. N. Lee for 28-bed, 1-story, frame infirmary and 7-room 1-story, brick veneer residence at South Carolina State Hospital, Dr. Ernest Cooper, Supt.; Wilson, Berryman & Kennedy, Archts., 1206 Palmetto Bldg., all Columbia.*

Tenn., Memphis—City let contract at \$97,000 to D. D. Thomas & Son, Dunlap St., and L. & N. R. R., Memphis, for maternity ward addition at General Hospital; heating to Memphis Heating Co., Madison and 4th Sts.; electrical work, Jos. Fowler Electric Co., Monroe and Main Sts.; plumbing, Pritchard Bros. Plumbing Co., 433 Madison Ave.; elevator, Otis Elevator Co., Memphis Office, Court and 4th Sts.; Jones & Furbringer, Archts., Petroleum Bldg., all Memphis.*

Tex., Seymour—R. K. McMordie, Mineral Wells, Tex., has contract for plumbing and steam heat and hot water system and E. C. Besty, Mineral Wells, for electric wiring and nurses' call system for \$45,000 Baylor County Hospital under construction by C. H. Mothes, Seymour; A. B. Wathers, Archt., Mineral Wells.*

Va., Martinsville—Shackelford Hospital is erecting \$20,000 addition; 60 ft. long; E. L. Davis, Contr., Martinsville.

Hotels and Apartments

Ala., Birmingham—T. H. Molton, 617 Idlewild Circle, is making improvements to Molton Hotel, Fifth Ave. and 20th St., to cost about \$60,000; plans include installation of windows on east side of building and addition of 56 baths.

Fla., Jacksonville—Mrs. Gertrude Schneiders, 712 Hogan St. let contract to Forster & Christopher, Jacksonville, for \$12,000, 2-story, brick stores and flat building on Union St.

Fla., Lake City—Owners of Blanche Hotel have broken ground for erection of 3-story annex, Marion and DeSoto Sts.; ground floor will contain 5 store rooms; second and third, 32 hotel guest room with 26 baths; \$32,000; brick and reinforced cement.

Fla., Miami Beach—J. G. Gautier and W. R. Becker awarded contract to Hunt Brothers, New Tatum Bldg., Miami, for \$70,000, 28-apartment building on Jefferson Ave., between 5th and 6th Sts.

Fla., Miami Beach—Dr. Frank Davis, 2846 Collins Ave., awarded contract to Chas. F. Eweing, Miami Beach, at \$110,000, for 4-story, 90x120 ft., cast concrete and cement block fill-in, 25-apartment building, Collins Ave., 29th St. and Ocean Drive; pine and concrete floors, tile in lobby, halls, kitchens, baths and closets; cast concrete on pileing foundation, hollow tile, interior tile, vaults, vault lights, ventilators, ornamental terra cotta, hot water heat; to be ready Nov. 15; Martin Hampton, Archt., Congress Bldg., Miami, Fla.*

Fla., Miami—J. N. Norwood is erecting \$15,000 apartment building, 1540 S. W. Second St.; J. C. Gault, Archt., Miami. Owner builds.

Ga., Atlanta—Bedwine Co., Bona Allen Bldg., plans erection of brick apartment build-

after plans by Wm. J. J. Chase, 140 Peachtree St., Atlanta, Ga. Owner builds.

Mo., St. Louis—C. Wensel, 1119 Wilmington Road, has plans in progress by O. J. Popp, Odd Fellows Bldg., St. Louis, for \$15,000, 2-story and basement, 34x52 ft., brick, 4-family apartment building at 1115-17 Wilmington Road.

N. C., Asheville—Dr. E. W. Grove of St. Louis, Mo., and Asheville, awarded contract to Divine Millwork Co., Wilmington, N. C., for all millwork for Battery Park Hotel; \$1,000,000, 11 stories, each story will contain 22 rooms and bath, 190x103 ft.; Atlantic Marble & Tile Co., Charlotte, marble and tiling contractor; W. L. Stoddart, Archt., 50 E. 41st St., New York City; construction under supervision of J. M. Geary, Asheville, construction engineer.*

N. C., Wilmington—Southern Engineering Co., Charlotte, N. C., has contract for fire escapes and for substituting steel floors for present wood floors in Carolina apartment building.

Tenn., Chattanooga—Johnson & Redmond awarded contract to Stewart Construction Co., Ferger Bldg., Chattanooga, for \$60,000, 2-story, brick, 16-residential apartments at Duncan and Greenwood Sts.; hardwood floors, tar and gravel roof, steam heat, patent plaster, wood laths; heating, plumbing and wiring let to Fred Cantrell Co., 667 Market St., Chattanooga.*

Tenn., Johnson City—A. S. Brownlow is erecting \$25,000, 2-story, brick apartment house; concrete roofing, steam heat; private plans.

Tex., Dallas—S. Kirkgard, 712 Lipscomb St., is erecting \$55,000, brick veneer, 2-story, 37-room, 8-apartment building at Oak Lawn Ave. and Prescot St.; oak floors, reinforced concrete foundation, plaster on wood lath, interior tile, mail boxes, Carey No. 7 built-up roof, gas steam heat; Farewell Plumbing Co., plumbing; Wm. Kirkgard, Archt., 712 Lipscomb St.; both Dallas.*

Miscellaneous

Ala., Montgomery—Fair Building—State Fair of Alabama, Mort L. Bixler, Mgr., Chamber of Commerce, awarded contract to Hodgson & Jones, Montgomery, for grand stand at Vandiver Park, to cost about \$10,000; F. Ausfeld, Archt., Montgomery.*

Fla., Cortez—Bath Pavilion—Cortez Bathing Pavilion, Inc., D. B. Sutton, Sec., Bradenton, awarded contract to J. C. Walden, Bradenton, to erect 1½-story, \$12,000, 70x200-ft. frame bath pavilion, to replace structure destroyed by fire; A. C. Price, Archt., Bradenton.*

Fla., St. Augustine—Clubhouse—Business & Professional Woman's Forum has plans by Francis A. Hollingsworth, City Bldg., St. Augustine, and will erect this summer a recreational clubhouse; J. L. Neighbors, St. Augustine, will have charge of work.

La., Shreveport—Stadium—State Fair Assn., W. R. Hirsch, Sec.-Mgr., awarded contract to Tom Green, 2720 Virginia Ave., Shreveport, for first unit of football stadium at Fair Grounds; will extend 304 ft. on side of stadium and cost \$12,750; remaining unit will be built next summer.

Md., Upper Marlboro—Fair Buildings—Southern Maryland Agricultural Fair Assn. is erecting addition to exhibition hall and will erect judges' stand for race course.

Miss., Tupelo—Grandstand—North Mississippi-North Alabama Fair, Sec. Mullins, awarded contract for erection of grandstand.

Mo., St. Louis—Convent—Convent of Good Shepherd, 3801 Grayoise St., awarded contract to Jno. Grewe Construction Co.,

Century Bldg., St. Louis, for \$250,000, 2-story, 40x150 ft., brick 3-wing addition to chapel building; Helmuth & Helmuth, Archts., DeMenil Bldg., St. Louis, Mo.*

N. C., Raleigh—Southern Engineering Co., Charlotte, N. C., has contract for furnishing all structural steel for school and administration building for Methodist Orphanage, for which Jewell-Riddle Co., Sanford, N. C., has general contract at \$137,500.*

N. C., Wilmington—Southern Engineering Co., Charlotte, N. C., has contract for fire escapes for Princess building on Princess St. for Thos. H. Wright.*

Tex., Mexia—Clubhouse—Mexia Country Club adopted plans by J. F. Denning and let contract to L. J. Ingram for \$25,000, 2-story clubhouse.

Schools

Ala., Artmore—T. H. Wainwright has contract for improvements to school to include addition of 4 rooms, new roof, doors and windows, all walls to be replastered; recently reported to raise \$12,500. Address Board of Trustees.*

Ark., Camden—Special School District No. 35, W. R. Smith, Sec., awarded contract to Ward H. Fisher, Cotton Exchange Bldg., Oklahoma City, Okla., at \$63,310, for white high school and at \$16,500, for negro school; high school, face brick, 140x80 ft., 2-story and basement, e. g., pine floors, brick and concrete foundation, asbestos roof; H. S. Lazarus, Camden, heating and plumbing at \$8260; Texarkana Electric Co., Texarkana, wiring at \$775; Witt, Seibert & Halsey, Archts., Texarkana, Ark.*

Ark., De Queen—School Board awarded contract to S. J. James of De Queen Tin Shop for furnishing plumbing and equipment for connecting school building with new sewer system.

Fla., Coconut Grove—Dade County Board of Public Instruction, Miami, awarded contract to S. C. Green, Miami, for \$16,490 school for negroes; Walter C. de Garmo, Archt., Miami.*

Fla., Daytona—See Building Contracts Awarded—Schools—DeLand, Fla.

Fla., DeLand—Volusia County Board of Public Instruction let contract to R. Knight at \$90,606, to erect school building; also let contract to D. F. Douglass, New Smyrna, at \$31,135, for South Ridgewood Ave. school at Daytona; heating contract to A. B. Moore at \$1100; addition to Daytona colored school let to Jesse L. Pratt at \$6900.*

Fla., Oakland—Orange County Board of Public Instruction, Orlando, awarded contract to R. M. Grant & Co., Tampa, for school building.

Ky., Catlettsburg—Board of Education, J. T. Miracle, Supt., awarded contract to Elswick & Ramey, Ashland, for 4-room addition to Fourth Ward School; Richard M. Bates, Jr., Archt., 416 11th St., Huntington, W. Va.

Ky., Erlanger—Board of Education, L. Dixon, Pres., has plans by and awarded contract to P. J. Corder, Erlanger, at \$17,945, for 2-story, brick and concrete, 44x60 ft. school building; wood floors, concrete foundation, slate roof, steel sash and trim; O. L. Bangenstock, Erlanger, lavatories.*

Ky., Oneida—Oneida Baptist Institute, Mrs. Sylvia W. Russell, Pres., awarded contract to M. M. Redmon, 517 W. 23rd St., Pine Bluff, Ark., at \$50,000, for 3-story, 44x130 ft., brick and concrete girls' dormitory; oak and concrete floors, concrete foundation, Richardsons asphalt shingle roof, plaster board, metal doors; Robinson Bros., 214 W. Barr St., heating and plumbing; Taylor Electric Co., 111 E. 2nd St., electric

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work; Lester Redmon, Archt. 715 W. 24th St., all Pine Bluff, Ark. Desire bids on plastering.*

Fla., Winter Garden—Orange County Board of Public Instruction, A. B. Johnson, Supt., awarded contract to R. W. Wimbish, Winter Garden, for erection of 8-room addition to school building.

Md., Mt. Washington (Ind. Sta. Baltimore)—Mount St. Agnes College has plans for \$900,000, 157x182 ft., 5-story, brick high school building; Frank J. Baldwin, Archt., 328 N. Charles St.; Frainie Bros. & Haigley, Contr., 19 W. Franklin St.; both Baltimore, Md.*

Miss., DeLisle—Board of Trustees awarded contract to Bailey & Brady for 1-story 64x74 ft., frame school building to cost about \$10,000; wood and concrete floors, concrete and brick foundation, composition roof, plaster board, ventilators; Vinson B. Smith, Jr., Archt., Gulfport, Miss.*

Miss., Silver City—Trustees Silver City School awarded contract to R. L. Edward, Belzoni, Miss., at \$9,890, for school building; C. H. Lindsley, Archt., Jackson, Miss.*

Miss., Wiggins—Mayor J. P. Clendenin let contract to Oden & Glenn, Hattiesburg, Miss., for \$42,826.15; hollow tile face with common brick, 1-story school building; e. g., pine floors, concrete foundation, Johns-Manville roof, hollow tile, metal ceilings; Hamilton Bros. Co., heating and plumbing; Standard Electric Co., electric work; H. D. Shaw, Archt.; all Gulfport.*

Mo., Columbia—Delta Delta Delta Sorority awarded contract to Simon Construction Co., Columbia, for \$38,000, 3-story and basement, 37x61 ft., brick with wood framing sorority house. Burnham and Richmond Aves.: to accomodate 28 girls and suite for chaperon; oak floors, asphalt shingle roof, concrete foundation; Jamieson & Spearl, Archts., Arcade Bldg., St. Louis, Mo.*

Mo., Independence—School Board, J. A. Sloan, Pres., is erecting with day labor, a stone and brick, 83x86 ft., 2-story, \$50,000 school building in Rock Creek District; stone foundation, hollow tile, hardwood and concrete floors, ventilators, ornamental terra cotta; E. O. Brostrom, Archt., 623 Reliance Bldg., Kansas City, Mo.*

Mo., Kansas City—Board of Education, J. B. Jackson, Jr., Sec., awarded contract to Arthur G. Harper, 6235 E. 13th St., Kansas City, Mo., for \$70,000 3-story, 112x59 ft., brick and concrete J. J. Pershing School addition, Olive and 59th Sts.; linoleum concrete and hardwood floors, Barrett roof, stone foundation, hollow tile, interior tile, metal ceilings, ventilators, ornamental terra cotta; MacMahon Co., 1316 Oak St., plumbing and drainage; K. R. Jornice Works, 805 E. 18th St., heating; Wyandotte Electric Co., 4 E. 43rd St., electric wiring; Bailey-Reynolds Chandelier Co., 915 Grand Ave., electric fixtures; Chas. A. Smith, Archt., Finance Bldg.; J. A. Brady, Engr., Library Bldg.; all Kansas City, Mo.*

Mo., Kirksville—Board of Regents of State Teachers College, C. W. Green, Pres., Brookfield, Mo., awarded contract to T. W. Hackett, St. Joseph, Mo., at \$76,695, for 3-story fire-proof library building; address R. H. Sanne-man, Archt., Lee Bldg., Kansas City, Mo.*

Mo., Tarkio—Tarkio College Building Committee, care J. A. Thompson, Pres., awarded contract to J. M. McCoy, Tarkio, at \$38,000, not including heating, plumbing and wiring, for 1-story, reinforced concrete and brick gymnasium; reinforced concrete floors, concrete foundation, composition roof, hollow tile, steel sash; Mitchel Thomas, St. Joseph, brick work, and H. L. Goddard, Archt., Marshall, Mo.*

N. C., Gastonia—Gastonia County Board of Education awarded contract to W. Otis Pratt, Mt. Holly, N. C., for erecting Myrtle School and W. H. Hand of Belmont was awarded contract for North Belmont School; both contracts around \$40,000.*

N. C., Greensboro—Guilford County Board of Education let contract to Byrum Construction Co., Oxford, N. C., at \$20,500 for 6-room and auditorium school building in Madison Township; Sanitary Heating & Ventilating Co., Greensboro, heating at \$1836.

N. C., Linwood—Southern Engineering Co., Charlotte, N. C., has contract for reinforcing bars, structural steel and miscellaneous iron for school, for which Harbin Construction Co., Lexington, N. C., has general contract.*

N. C., Oak Ridge—Oak Ridge Institute is replacing Oakhurst Dormitory, recently destroyed by fire, with 2-story, fireproof, brick Colonial type structure, to be completed in September.

N. C., Wilson—Building Committee, Chas. L. Coon, Chmn., awarded contract to Gaskill Construction Co., Wilson, at \$50,000, for 2-story, brick, non-fireproof, 2-classroom and auditorium school building at Lucama, and to Hancock & Davis, Beaufort, N. C., at \$23,000, for 1-story, wooden, 4-classroom and teacharge at Scott's Church; slate and asphalt shingle roofs, concrete foundations, gum floors, hollow tile, steel sash and trim; Wilson, Berryman & Kennedy, Archts., Palmetto Bldg., Columbia, S. C., and Wilson, N. C.*

Okl., Bushyhead—Board of Education, care C. Robertson, Clerk, awarded contract to C. M. Tubbs, Tulsa, for 37x76 ft., brick and wood, 2-story school and auditorium addition to cost about \$10,000; tar and gravel roof, wood and concrete floors, concrete foundation; Frank C. Walter, Archt., 933 Kennedy Bldg., Tulsa, Okla.*

Okl., Fort Gibson—Board of Education, care Thos. H. Leeds, Clerk, awarded contract to J. P. Wheat, 312 S. 21st St., Muskogee, at \$11,900, for 1-story and basement, 74x97 ft., school building; concrete foundation, built-up asphalt roof, pine floors and finish, reinforcing steel and lintels, steam heat, hollow tile, metal lath, metal ceilings, waterproofing, mortar colors, art glass, terra cotta, screens, ventilators; S. E. Barnes & Co., Archts., 1333 Summitt St., Muskogee Okla.*

Okl., Guthrie—Board of Education, care Mrs. Addie Lee Lowther, Clerk, awarded contract to T. F. Gross Construction Co., at \$15,000 for 1-story, 52x70 ft., combined gymnasium and auditorium addition to Cottrell School; also to E. W. Trapwell, at \$3539, for remodeling Banner School; Hawk & Parr, Archts., Cotton Exchange Bldg., Oklahoma City, Okla.*

Okl., Mangum—Consolidated District No. 14 let contract to Cecil Sumers, Carter, at \$16,304, including heating, plumbing and wiring, for 1-story and basement, brick and stone school building; private plans.

Okl., Muskogee—Board of Education, E. D. Cave, Clerk, awarded contract to J. L. Dougherty Construction Co., Muskogee and Okmulgee, Okla., at \$14,005, for 2-story, brick, stone and concrete, 47x55 ft., school building; built-up asphalt roof, concrete foundation, oak floors, hollow tile, ventilators; major items to be purchased include: Brick, stone, cement, hollow tile, lumber, slate blackboards, mill work; Bassham & Howenstein, Archts., 702 Barnes Bldg., Muskogee, Okla.*

Okl., Temple—A. J. Simpson, 223 N. 14th St., Muskogee, Okla., awarded following sub-contracts in connection with his contract for erecting 6-room and auditorium school building: American Millwork Co., Tulsa, millwork; J. B. Klein Iron & Fdry. Co., 1006 W. 2nd

St., steel; Gasteam Radiator Co., 14 W. Main St., heating; Tonini & Bramblett, Archts.; all Oklahoma City.*

S. C., Bishopville—Trustees Bishopville High School, W. G. Parrott, Sec. Board, awarded contract to W. J. Huggins, Florence, S. C., at \$18,887, for brick and frame extension; W. D. Harper, Archt., Florence, S. C.*

S. C., Clinton—South Carolina Training School awarded contract to C. M. Guest, Anderson, S. C., for three 1-story, brick walls buildings to cost about \$55,000; beech or maple floors, slate roof, interior tile, metal doors, steel sash and trim; Lafaye & Lafaye, Archts., Columbia, S. C.

Tenn., Nashville—Vanderbilt University Executive Committee awarded contract to Foster & Creighton, Fourth and First Bldg., Nashville, for erection of Alumni Memorial Hall and Neely auditorium, to cost over \$300,000; Henry C. Hibbs, Archt., Fourth and First Bldg., Nashville, Tenn.*

Tenn., Richard City—Dixie Portland Cement Co. has plans by C. E. Bearden, 1st National Bank Bldg., Chattanooga, for erection of \$120,000, 2-story school building; cement walls and floors; owners will supervise construction.

Tex., Abilene—Simmons University, J. D. Sandifer, Pres., awarded contract to R. C. Lewis, Abilene, on percentage basis, for erection of 4-story, \$115,000, brick hollow tile, interior tile, vaults, ventilators, concrete floors, wire glass; and reinforced concrete dormitory; David S. Castle, Archt., Abilene.

Tex., Asherton—Board of Education awarded contract to H. J. Hansen, Asherton, at \$27,979 for erecting school building; Henry T. Phelps, Archt., Hicks Bldg., San Antonio.*

Tex., Iola—Board of Education, W. F. Stephens, Pres., awarded contract to C. E. Johnson, Bedias, at \$37,200 for 2-story, brick, stone and reinforced concrete, 150x52 ft., 10-room and auditorium school building; concrete foundation, wood floors, gravel roof; cost of equipment \$6000; Wm. Ward Watkins, Archt., 212 Scanlan Bldg., Houston, Tex.*

Tex., Jacksonville—Jacksonville College, B. J. Albritton, Pres., is erecting concrete and brick, \$46,000, 2-story and basement, 136x45 ft. girls' dormitory; metal roof, cement, concrete and e. g. pine flooring, concrete foundation; G. F. Jackson, vapor heating and plumbing; J. M. Trotter, electric wiring; Chas. W. Marshall, Contr.; all Jacksonville, Tex.; construction up to last floor. (See Machinery Wanted—Equipment School.)

Tex., Lubbock—Texas Technological College awarded contract to Ramey Brothers, El Paso, at \$371,383, for administration building and to J. B. Maxey, Lubbock, at \$26,752, for president's residence; Administration: Korioth Plumbing & Heating Co., Sherman, heating at \$16,000; Schroeder Electric Co., San Antonio, wiring at \$9251; President's residence: Texas Heating & Ventilating Co., Fort Worth, heating at \$1280; L. Holt, Fort Worth, plumbing at \$2135; Rigsbee Electric Co., Dallas, miring at \$97; Sanguinet, Staats & Hedrick, Archts. & Engrs., First National Bank Bldg., Fort Worth; Robert & Co., Consit. Engrs., Dallas and Atlanta, Ga.; address Amon G. Carter, Pres. Board of Directors.*

Tex., Mumford—Board of Education awarded contract to Hearne Building Co., A. L. Page, Mgr., at \$11,361 for 1-story brick dation, metal ceilings, gravel composition school building; wood floors, concrete foun-roof; Rabe Wilson, Archt., Waco, Tex.*

Tex., Nixon—Board of Education, J. S. Parker, Pres., awarded contract to Gunders-Mann & Allen, San Antonio, at \$46,855 for 1-story, 182x162 ft., concrete and brick school building; Barrett roof, concrete foun-

dation, concrete and wood floors, metal ceilings, ornamental terra cotta; Kirkwood & Wharton, San Antonio, heating at \$4845 and plumbing at \$387; Vollmer Electric Co., electric wiring at \$398; Page Bros., Archts., Austin.*

Tex., Saline—Bienville Parish School Board awarded contract at \$52,677 for erection of brick, 11-classroom, office, laboratory, auditorium and balcony school building; J. W. Smith, Archt., Monroe, La.; recently voted \$65,000 bonds.*

W. Va., Arden—Arden District Board of Education awarded contract to Chas. A. Westenhaver, Martinsburg, W. Va., at \$21,700 for 2-story, brick and concrete, 82x59 ft. school building; concrete and hardwood floors, concrete foundation, Barrett Specification roof, ventilators; H. G. Shade, electric wiring; C. E. Kent, Archt., both Martinsburg.*

W. Va., Wheeling—Board of Education, care Ben E. Hamilton, Bus. Mgr., awarded contract to Schofield-Cowl Co., Wheeling, at \$8663 for heating system at Union School.

Stores

Ala., Greenville—Beeland Bros. awarded contract to Hugger Bros. Construction Co., Montgomery, Ala., for \$32,000, 2-story, brick, 60x210 ft. department store on Beeland Sq., East Commerce and North Hickory Sts.; hardwood and concrete floors, concrete and brick foundation, composition built-up roof, plaster board, wire glass; Okel & Cooper, Archts., Montgomery, Ala.*

D. C. Washington—Randall H. Hagner & Co., 1207 Connecticut Ave., N. W., awarded contract to O'Neill Construction Co., Washington, for \$400,000, 2-story, limestone and marble building in 1300 block Connecticut Ave., N. W., to contain 4 stores on ground floor and studio apartments above; Geo. N. Ray, Archt., 1219 Connecticut Ave., Washington.

D. C. Washington—F. R. Jelleff, 1215 F St., N. W. let contract to S. J. Prescott, 814 13th St., N. W., Washington, for \$300,000 addition to store building.

Fla., Bradenton—R. P. Spangler let contract to Foxworth Bros., Bradenton, for 20x20 ft., hollow tile and stucco addition to store building.

Fla., Eau Gallie—Dr. W. J. Creel awarded contract to J. M. Jenkins to remodel 1-story building on Ninth St., to be occupied by Howard Hardware Co.

Fla., Manatee—W. F. Tallant is erecting 1-story brick building on Manatee Ave. and 2-story, sheet metal, 20x65 ft. storage building, to be occupied by Farmers' Hardware Co.

Fla., Miami—W. M. Burdine's Sons, 22 E. Flagler St., awarded contract to Geo. Jahn, Miami, for \$250,000, 150x120 ft., fireproof, 4-story addition to department store on Flagler St.; tile and slag roof, concrete flooring, hollow tile, interior tile, metal ceilings, metal doors, ventilators, wire glass, steel sash and trim; Otis Elevator Co., Miami, 3 Micro Leveling, high-speed, electric elevators; Henry LaPointe, Archt., 145 E. Flagler St., Miami.*

Fla., Sebring—E. B. Dingus awarded contract to Olif Hanson, Sebring, for \$15,000, 2-story, concrete block and brick, 45x85 ft.

business block on Circle; terrazzo floors, concrete foundation, built-up asphalt roof; A. C. Price, Archt., Morristown, Tenn.*

Fla., St. Petersburg—C. Buck Turner, 400 Central Ave. and associates awarded contract to R. L. Sharp, Room 409, Central Ave., St. Petersburg, for 2-story, hollow tile and stucco, \$30,000 building, 151-3 Central Ave.

Fla., Stuart—Van Smith has let contract for store building on Dixie Highway.

Ga., Atlanta—Davison-Paxon-Stokes Co., 59 Whitehall St., let contract to Barge-Thompson Co., 61½ N. Forsyth St., Atlanta, for extensive improvements to Broad St. end of building; work consists of erection of new front of Indiana Limestone with cornices, spandrels and copper marquee; lobby with marble floors and stone walls will be installed; Pringle & Smith, Archts., Atlanta Trust Co. Bldg., Atlanta, Ga.

Ga., Augusta—Rice & O'Connor Shoe Co., 850 Broadway, let contract to Lawrence Construction Co., Augusta, for building front and remodeling store building at 852 Broad St., to cost \$10,000.

La., Shreveport—F. L. Dyer & Co. awarded contract to A. Delatte, 2048 Linn Ave., Shreveport, for \$150,000, 2-story, 68x150x170 ft., reinforced concrete and brick mercantile building.

Mo., St. Louis—Ralston Purina Co., 800 S 8th St., let contract to Woermann Construction Co., Syndicate Trust Bldg., St. Louis, for \$200,000, 6-story and basement, 52x120 ft., reinforced concrete and brick mercantile building.

N. C., Charlotte—Louis Lipinsky, Mgr. of Bon Marche department store, let contract to H. M. Wade Manufacturing Co., S. Graham St. Extended, Charlotte, for improvements to cost in excess of \$75,000; improvements include addition of store on Tryon St., the 2 stores to be made into one by opening and connecting rear of buildings; renovations and remodeling will begin August 1.

N. C., King—J. W. Kiser let contract for erection of 2-story concrete building on East Main St., to be occupied by Geo. Neal of Walnut Grove as hardware store.

N. C., Raleigh—Griffis & Bland awarded contract to J. E. Beaman, New Odd Fellows' Bldg., Raleigh, for \$10,000 business building on Davie St.

N. C., Raleigh—Lumaden Brothers, 105 W. Hergett St., awarded contract to J. H. Clodfelter, Raleigh, for \$17,000 business building at W. H. Hargett St.

N. C., Winston-Salem—Hersh & Silverstein awarded contract to J. L. Crouse, Winston-Salem, for \$22,500 building on West Fourth St.; M. L. Albertson, Archt., Westcourt High Point Road, Greensboro, N. C.

Tenn., Columbia—Statterfield Building on W. Seventh St. is being remodeled for occupancy by F. W. Woolworth Co.

Tenn., Memphis—S. W. Overton Estate awarded contract to Frank Ozanne, Memphis, for \$32,213 store building; Chas. Deas, Archt., Goodwyn Institute Bldg., Memphis.

Tex., Dallas—A. F. Kyn, Thomas Bldg., will erect \$150,000, 2-story, 70x100x400 ft., L-shaped, brick store and flat building with day labor; plans by owner.

Tex., Houston—W. T. Grant Co. awarded contract to E. S. Newcome, Dan Wagoner Bldg., Fort Worth, at \$114,649, for 3-story, reinforced concrete and steel, 50x151.9 ft. store building, 1009 Capitol Ave.; maple floors, concrete foundation, tar and gravel roof; A. P. Evans, Archt., 101 Park Ave., New York City.*

Tex., Lamesa—Rix Furniture Co. let contract to H. H. Frye, Slaton, for 67x140 ft., 2-story and basement, brick store building to replace structure destroyed by fire.*

Tex., San Antonio—Dr. A. A. Brown, 719 Howard St., awarded contract to A. E. Rheiner & Co., San Antonio, at \$25,834, for 2-story and basement, reinforced concrete and brick business building on S. Flores St.; Chukley Bros., 214 E. Romana St., plumbing at \$479; Braden-Hudson Co., 305 E. Commerce St., electric work at \$499; American Elevator Co., elevators at \$2096; Seutter & Simons, Archts., Moore Bldg., all San Antonio.*

W. Va., Huntington—G. D. Miller, 1427, 4th Ave. and E. L. Williams are erecting \$50,000, brick and steel, 2-story, 77x97 ft. stores and apartments building, S. E. cor. 14th St. W. and Jefferson Ave.; Barrett built-up roof, hardwood and concrete floors, plaster board, interior tile in bath rooms, built-in lock boxes for mail, Kerner Incinerator, ventilators; Swann, Johnson, Wright & Co., 831 6th Ave., piping for natural gas, pipe fittings, installation of kitchen and bath room equipment; Powers Electric Co., 624 10th St., knob and tube wiring; Levi J. Dean, Archt., Simms Kellar Bldg.; all Huntington, W. Va. Owner build.*

W. Va., Wheeling—Henry Kahn awarded contract to Hamm Brothers, Wheeling, for repairs to store rooms at 1044 Main St., to cost \$10,000.

Warehouses

Fla., Miami—Miami Grocery Co. awarded contract to Jno. B. Orr, Miami, at \$35,000, for 1-story and basement, 50x130 ft., concrete and tile warehouse on N. E. Eleventh St.; concrete floors and foundation, composition roof, hollow tile, metal doors, vaults, ventilators, steel sash and trim; E. A. Robinson, wiring; Alex Orr, Jr., plumbing; Otis Elevator Co., 1 freight elevator; L. A. Camp, Archt.; all Miami.*

Mo., Kansas City—Manhattan Construction Co., 1017 New York Life Bldg., will erect \$90,000, 3-story warehouse at 1634-38 Baltimore Ave.

N. C., Yadkin—North Carolina Finishing Co. awarded contract to E. H. Clement Co., Charlotte, N. C., for 1-story, 50x100-ft., brick warehouse, to cost about \$10,000; tar and gravel roof, concrete floors; J. E. Sirrine & Co., Archts. & Engrs., Greenville, S. C.*

Tex., Houston—Harris County Navigation District, H. L. Washburn, County Auditor, awarded contract to D. Hall, 520 Cotton Exchange Bank Bldg., Houston, for two 1-story, reinforced concrete warehouses at \$498,156; one 480 ft. and other 480 ft. long; 100,000 tank and tower to Southern Engine & Pump Co., 615 Washington St., Houston, at \$6951; E. A. Tucker, Engr., 3707 Graustark St., Houston.*

MACHINERY, PROPOSALS AND SUPPLIES WANTED

Air Compressor.—See Quarry Equipment.

Asphalt Plant.—J. T. Walsh, 500 Brisbane Bldg., Buffalo, N. Y.—Wants 1800 yd. asphalt plant.

Bakery Supplies.—Geo. Warton, Evergreen, Ala.—Wants data and prices on modern ba-

kery supplies; correspond with manufacturers.

Band Saw.—See Woodworking Machinery.

Boilers.—Thomas F. Carey, 120 Liberty St., New York City.—Wants 150 h.p., 150 lbs. pressure, Economic type, or some other self-

contained boiler; in good working condition.

Boilers.—William Seymour, 5117 Kenwood Ave., Chicago, Ill.—Wants two boilers, 250 h.p. each, must be A. S. M. E.; for Indiana delivery.

Boxes (Paper and Tin).—Thomas F. Bor-

In writing to parties mentioned in this department it will be of advantage to all concerned if the Manufacturers Record is mentioned.

den, Goldsboro, N. C.—Wants to purchase paper and tin boxes used for packing candies.

Bridge.—Webb County, Laredo, Tex., will build 4 bridges and one culvert. Details under Construction News—Bridges, Culverts, Viaducts.

Bridge.—Allendale County, Allendale, S. C. Details under Construction News—Road and Street Construction.

Bridge.—State Highway Dept., Austin, Tex. Details under Construction News—Bridges, Culverts, Viaducts.

Bridge Approach.—Charleston County, Charleston, W. Va. Details under Construction News—Bridges, Culverts, Viaducts.

Building Material.—Jas. Stewart & Co., Inc., 402 Keyser Bldg., Baltimore, Md., is estimating on general contract for freight station, 68x55 ft. by 25 ft., office building 140x50 ft. by 38 ft., auditorium 82x55 ft. by 18 ft., all of brick, steel and concrete; also covered platform 13x684 ft., and 2 transfer sheds 18x500 ft. each, both of heavy timber construction; plumbing and hot water heating in general contract; wants sub-bids and estimates until July 8; building to be erected at Bluefield, W. Va., for Norfolk & Western Rwy. Co.

Butter Milk Making Machinery.—R. W. Huie, Arkadelphia, Ark.—Wants machinery used in the manufacture of Bulgarian butter milk, also formula for making the milk.

Cars (Dump).—C. M. Roswell (Mchy. Dealer), 1162 Marlyn Road, Philadelphia, Pa.—Wants to purchase five 12-yd. second-hand, standard gauge dump cars.

Cars.—Mills Equipment Corp., Chattanooga, Tenn.—Wants 200 to 300—24-in. gauge, double deck drier cars; Southern delivery.

Pumps (Centrifugal).—T. L. Eberhardt, Chester, S. C.—Wants one centrifugal pumping outfit, capacity 800 gal. water per min.

Chain Cloth.—The Oregonia Bridge Co., Thos. R. Spencer, Pres., Lebanon, Ohio.—Wants prices on flexible chain cloth, made of small welded twisted links so cloth will lie flat and impregnable; links to be made to 3/4-in. diam. wire or No. 17 Am. gauge B & S and of strong non-rusting metal.

Coal Mining Machine.—Tompkins Fuel Co., Charleston, W. Va.—Wants to purchase short wall cutting machine, 50 H. P., 6½ cutter.

Core Drilling.—City of Staunton, Va., W. F. Day, Mgr.—Will receive bids July 19 for diamond drill investigation of North River storage dam site; minimum of 400 ft. of drilling will be required and a minimum hole will be 20 ft.; cores 1½-in. in diam.; work located on main branch of North River, Augusta County, approximately 7 miles above Stokesville, Va.; formation to be prospected to be sandstone overlain with 6 to 10 ft. of glacial drift.

Crushers.—See Quarry Equipment.

Double Crankshafts.—C. R. Liverman, Roxobel, N. C.—Wants to purchase double opposed, double throw cranks, cold rolled steel shaft 1½-in. diam., bent or pressed.

Dredges.—U. S. Engineer Office, Louisville, Ky.—Will receive bids Aug. 17 to construct and deliver 3 dipper dredges.

Dredge (Suction).—R. K. Vancamp, Bradenton, Fla.—Wants to purchase or lease suction dredge; prefer 10-in.; state price, condition and efficiency of machine.

Dragline Bucket.—Thomas F. Carey, 120 Liberty St., New York City.—Wants to purchase 2 to 2½ yd. Page dragline bucket.

Dredging.—U. S. Engineer office, Galveston, Tex. Details under Construction News.

Dredging.—U. S. Engineer Office, Galveston Tex.—Will receive bids July 28 to dredge channel between Port Aransas and Corpus Christi.

Drill Sharpening Machine.—Hodgson Machinery Co., (Mchy. Dealer) Knoxville, Tenn.—Wants to purchase second-hand No. 5 Leyner drill sharpening machine.

Electric Generating Plant, etc.—M. R. Cashman, Chrnn. Utilities Coms., Owatonna, Minn.—Will receive bids July 17 for construction of 100 k.w. steam electric generating plant, complete electric distribution and street lighting system and a steam-heating system in business district; plans with Arthur L. Mullergren, Consil. Engr., 555 Gates Bldg., Kansas City, Mo.

Electric Light Plant Machinery, etc.—G. P. Lawrence, Box 74, Lantana, Fla.—Wants equipment for electric light and water plant; especially desirous of prices on full automatic, 110 volt, direct current plant.

Equipment (School).—B. J. Albritton, Pres. of Jacksonville College, Jacksonville, Texas.—Wants bids until July 15 for furnishings and equipment for 31 bed-rooms, dining hall to accommodate 125, 2 reception rooms and 5 hallways.

Fertilizer Mixing Machinery.—Felix Farmer, 412 Baltimore Bldg., Oklahoma City, Okla.—Wants data on fertilizer mixing machinery; correspond with manufacturers.

Fire Hose.—U. S. Marine Corps, Quartermaster's Dept., Washington, D. C.—Will receive bids July 9 to furnish 1000 ft. of fire hose; delivery Quantico, Va.; Sch. No. 28.

Furnishings.—B. J. Albritton, Pres. Jacksonville College, Jacksonville, Texas.—See Equipment (School).

Generator Set (Electric).—Tompkins Fuel Co., Charleston, W. Va.—Wants to purchase 100 K. W. 250-volt D. C. motor generator set.

Glass (Plate).—C. W. Brown, Frostproof, Fla.—Wants to purchase plate glass having small prisms or concentric rings cast on one side to prevent looking through it but allows plenty of light; correspond with manufacturers.

Hardware (Phonograph or Radio).—Harry Raymond, High Point, N. C.—Wants phonograph or radio hardware including leather handles, rubber headed nails and supports.

Heating (Hot Water).—Jas. Stewart & Co., Inc., 402 Keyser Bldg., Baltimore, Md.—See Building Material.

Hose (Vacuum Cleaning).—James McGuire, 115 Drayton St., Savannah, Ga.—Wants prices on vacuum cleaning hose, correspond with manufacturers.

Ice Cream Cone Machinery.—W. C. Dorsey, Manual Training Inspector, Siloam Springs, Ark.—Wants to purchase machine to manufacture ice cream cones.

Ice Plants.—J. W. Christopher, Marfa, Tex.—Wants prices on one-ton ice plants, correspond with manufacturers.

Ice Storage.—Oliver Ice Co., L. C. Oliver, Pres., N. W. 14th St. at F. E. C. Railway, Miami, Fla.—Wants data and prices on construction of 2000 ton ice storage room.

Jackhammers.—See Quarry Equipment.

Locomotive (Electric Storage Battery).—Tompkins Fuel Co., Charleston, W. Va.—Wants to purchase combination storage and trolley locomotive, 36-in. gauge, low type.

Locomotive (Electric Trolley).—See Locomotive (Electric Storage Battery).

Locomotive.—Mills Equipment Corp., Chattanooga, Tenn.—Wants one standard gauge Porter 14x20 locomotive; Southern delivery.

Lumber.—Tompkins Fuel Co., Charleston,

W. Va.—Wants to purchase one or two car loads of lumber for coal tipple.

Meters (Electric).—C. M. Roswell, (Mchy. Dealer), 1162 Marlyn Road, Philadelphia, Pa.—Wants two A. C. ammeters, 60 cycles, 0-500 amp scale for use with 500/5 amp. current transformers; one indicating wattmeter for use on 2-phase circuit with 2200/110-volt potential transformers and 500/5-amp. current transformers, A. C. 60 cycles, 2000-0-2000 scale; one watthour meter, polyphase, for use with 2200/110-volt potential transformer and 500/5-amp. current transformers, with ratchet device to measure outgoing power; used meters preferred.

Motors (Electric).—C. M. Roswell (Mchy. Dealer) 1162 Marlyn Road Philadelphia Pa.—Wants to purchase one used, G. E. or equal, 5 H. P., 220-volt, A. C., 3-phase motor, 1400 to 1900 RPM, with 4x4 pulley; also one used, G. E. or equal, ¼ H. P., 110-volt, A. C. motor, without pulley, 1400 to 1800 RPM, single phase.

Organ (Pipe).—Rev. W. R. Davis, Pastor, Baptist Church, Williston, S. C.—Wants to purchase pipe organ.

Paving, etc.—City of Gallatin, Tenn. Details under Construction News—Road and Street Construction.

Paving, etc.—Village of Barboursville, W. Va. Details under Construction News—Road and Street Construction.

Paving.—City of Daytona, Fla. Details under Construction News—Road and Street Construction.

Paving, etc.—City of Martinsburg, W. Va. Details under Construction News—Road and Street Construction.

Pipe Insulation, etc.—U. S. Marine Corps, Quartermaster's Dept., Washington, D. C.—Will receive bids July 15 to furnish 17,600 sections of magnesia moulded pipe covering and 20,000 lbs. magnesia insulating cement; delivery Quantico, Va.; Sch. No. 30.

Plumbing.—Jas. Stewart & Co., Inc., 402 Keyser Bldg., Baltimore, Md.—See Building Material.

Pulleys.—See Machine Shop Tools.

Road.—Buncombe County, Asheville, N. C. Details under Construction News—Road and Street Construction.

Quarry Equipment.—D. C. Elphinstone (Mchy. Dealer), 408 Continental Bldg., Baltimore, Md.—Wants second-hand quarry equipment, including crusher, elevator, air compressor, full set of jackhammers, tripod drill, etc.

Rails (Relaying).—Mills Equipment Corp., Chattanooga, Tenn.—Wants 10 ml. of 80 or 85 lb. relaying rails; Southern delivery.

Refrigerating Plant.—Rockport Creamery Co., R. D. Park, Pres., Rockport, Ky.—Wants a small electric refrigerating plant.

Road.—State Highway Comm., Frankfort, Ky., will improve 2 roads. Details under Construction News—Road and Street Construction.

Road.—Webb County, Laredo, Tex. Details under Construction News—Road and Street Construction.

Road.—Washington County, Abingdon, Va., will build 2 roads. Details under Construction News—Road and Street Construction.

Road.—Campbell County, Rustburg, Va. Details under Construction News—Road and Street Construction.

Road.—Louisiana Highway Comm., Baton Rouge, La. Details under Construction News—Road and Street Construction.

Road.—Sutton County, Sonora, Tex. Details under Construction News—Road and Street Construction.

Road.—Dallas County, Dallas, Tex. Details under Construction News—Road and Street Construction.

Road.—Allendale County, Allendale, S. C. Details under Construction News—Road and Street Construction.

Road Roller.—D. C. Elphinstone, (Machinery Dealer), 408 Continental Bldg., Baltimore, Md.—Wants one 5-ton tandem roller, either gasoline or steam.

Road.—State Road Dept., Tallahassee, Fla. Details under Construction News—Road and Street Construction.

Road.—Baltimore County, Towson, Md. Details under Construction News—Road and Street Construction.

Road Rollers.—J. T. Walsh, 500 Brisbane Bldg., Buffalo, N. Y.—Wants three eight and ten ton road rollers.

Saws (Band).—See Woodworking Machinery.

Seating, Pews, etc.—Rev. W. R. Davis, Pastor, Baptist Church, Williston, S. C.—Wants prices on pews, opera chairs for Sunday school seating and various departments.

Sewers.—City of Knoxville, Tenn., Alexander I. Harris, Director of Public Service.—Will receive bids July 21 to construct sanitary sewer in Oakwood.

Salad Dressing Making Equipment.—The Merchants Co., Inc., K. C. S. St., Beaumont, Tex.—Wants prices and data on equipment for salad dressing.

Sewers.—City of Richmond, Va., Allen J. Saville, Director of Public Works.—Will receive bids July 31 to construct approximately 2510 lin. ft. of 29x16 ft. 3-in., and 3795 lin. ft. of 27x15 ft. 1½-in. reinforced concrete arch sewers; 464 lin. ft. of 7-ft. 6-in. x 7-ft. 2-in. reinforced concrete box sewer, certain reinforced concrete junction boxes, lateral segment block or pre-cast concrete sewers, terra cotta sanitary sewers, etc., also for construction of approximately 2262 lin. ft. of 27-ft. x 15-ft. x 1½-in. reinforced concrete arch sewer; 542 lin. ft. of 17-ft. 11-in. 9-in. reinforced concrete box sewer; headwall, concrete siphon, junction box and certain sanitary sewers.

Sewers.—City of Norfolk, Va., Walter H. Taylor, 3rd, Director of Public Works.—Will receive bids July 14 for construction of sewers in various streets in vicinity of Campostella; work includes 500 lin. ft. or 16-in. cast iron pipe, 1400 lin. ft. of 12-in. east iron pipe, 500 lin. ft. of 10-in. east iron pipe; 1300 lin. ft. of 15-in. terra cotta pipe, 30 lin. ft. of 12-in. terra cotta pipe, 4000 lin. ft. of 10-in. terra cotta pipe, 20,000 lin. ft. of 8-in. terra cotta pipe; 4000 lin. ft. of 4-in. terra cotta house connections; 80 manholes; 30 inspection boxes; 120 concrete or timber supports.

Sewer Construction.—City of Bentonville, Ark., E. C. Pickens, Sec., Sewer Improvement Dist. No. 1.—Will receive bids July 24 to construct 14 miles of 6 to 15-in. sanitary sewers and sewage disposal plant; W. L. Winters, Engr., Merchants' Bank Bldg., Fort Smith, Ark.

Shovels.—Mills Equipment Corp., Chattanooga, Tenn.—Wants one 1½ yd. railroad type steam shovel also one ¾-yd. crawler type shovel; Southern delivery.

Sidewalks and Paving.—City of Lakeland, Fla. Details under Construction News—Road and Street Construction.

Sprockets and Sprocket Chain.—See Woodworking Machinery.

Steam Shovel.—J. T. Walsh, 500 Brisbane Bldg., Buffalo, N. Y.—Wants to purchase ¾-yd. steam shovel; crawler traction.

Steel Bridge.—The Hawkins Playground Committee, Hattiesburg, Miss.—Wants one steel bridge about 90-ft. long, driveway 24-ft. wide with walkway 5-ft. wide on each

side, to be erected across Gordons Creek on Forrest St.; R. A. Chapman, City Engr.

Storm Sewer Extension.—City of Daytona, Fla., L. E. Hough, Clk.—Will receive bids July 14 to construct storm sewer extensions; work includes approximately 9000 ft. of 10-in. to 30-in. vitrified clay or cement concrete pipe, 800 ft. of cast-iron pipe, numerous manholes and inlets, culverts, castings, fittings; Harrington, Howard & Ash, Consit. Engrs., 1012 Baltimore St., Kansas City, Mo.

Street Improvement.—City of Asheville, N. C. Details under Construction News—Road and Street Construction.

Street Paving.—City of Lakeland, Fla. Details under Construction News—Road and Street Construction.

Street Improvement.—City of Asheville, N. C. Details under Construction News—Road and Street Construction.

Structural Steel.—U. S. Engineer Office, Florence, Ala.—Will receive bids August 1 to furnish structural steel roof trusses, columns, etc., for power house of Wilson Dam, Tennessee River.

Textiles.—Merchants Wholesale Co., Greenville, S. C.—Wants to buy face and bath towels, bed sheets, bed spreads, pillow cases, handkerchiefs, etc.

Tripod Drill.—See Quarry Equipment.

Waterproofing for Concrete.—H. T. Hicks, Archt., Welch, W. Va.—Wants data and prices on best waterproofing for concrete to be used in swimming pool.

Water Mains.—Town of Round Hill, Va., Johnson Taylor, Recorder.—Will receive bids July 22 to build ½ mile of 6-in. iron water main and about ¼ mile of 4-in. iron water main.

Water Reservoir.—City of Dallas, Tex., Louis Blaylock, Mayor.—Will receive bids July 22 to construct water reservoir dam near town of Garza. Details under Construction News—Water Works.

Water Works Improvements.—City of Davenport, Fla., Charles A. Crisp, Clk.—Will receive bids August 1 to furnish material, equipment and labor, and constructing certain work, approximately as follows: erected complete on foundations one 75,000-gal. steel tank and tower; following material special castings; 29,000 lin. ft. 2 and 1¼-in. ft. of 8 and 6-in. cast iron pipe; 6 tons of delivered f.o.b. cars, Davenport; 13,600 lin. galvanized pipe or cast iron pipe; 1100 pieces galvanized fittings; 25 fire hydrants; seven 8-in. gate valves and boxes, twelve 6-in. gate valves and boxes and four 2-in. gate valves and boxes; thirty 1¼-in. gate valves and boxes; 12,000 lbs. pig lead; 500 lbs. jute; E. V. Camp and Associates, Consit. Supv. and Testing Engrs., Atlanta, Ga.

Woodworking Machinery.—Gulf Machinery Manufacturing Co., Inc., Houston, Tex.—Wants to purchase small band saw wheels, narrow band saws, malleable cast hand wheels, worm gears and grooved pulleys, very small sprockets and sprocket chain.

Woodworking Machinery.—Andalusia Manufacturing Co., E. R. Merrill, Pres., Andalusia, Ala.—Wants prices on woodworking machinery.

Vacuum Cleaning Tools.—James McGuire, 115 Drayton St., Savannah, Ga.—Wants prices on vacuum cleaning tools, correspond with manufacturers.

Financial News

New Financial Corporations

Ark., Little Rock—Guaranty Industrial Loan Corp., capital \$150,000, chartered with John F. Frazer, Pres., Charles Apartments.

Fla., Hialeah—First State Bank of Hia-

leah incorporated by J. R. Anthony, Jas. H. Bright, H. R. Howell and others.

Fla., Miami—General Insurance Agency, capital \$10,000, chartered with Hugh M. Anderson, Pres., 1725 Miami Ave.; E. Spears Harris, Sec.

Fla., Miami—Magic City Investment Co., capital \$200,000, chartered with H. H. Pounds, Pres.; H. Dean, Sec., 121 N. E. 2nd St.

Fla., Sanford—Sanford Bank & Trust Co., capital \$50,000, chartered with W. H. Tunnicliffe, Pres.; F. H. Brown, Cashier.

Fla., Tallahassee—Tallahassee Loan & Savings Co., 105 S. Monroe St., capital \$30,000, organized with T. J. Appleyard, Pres.; J. C. Camp, Sec.-Treas.*

Fla., Tallahassee—Tallahassee Loan & Savings Co., capital \$20,000, chartered with T. J. Appleyard, Pres.; J. C. Camp, Sec.

Md., Baltimore—Astor Building and Loan Assn., Inc., 504 Equitable Bldg., capital \$500,000, incorporated by Benjamin Schwartz, Joseph Colvin and Simon Colvin.

Miss., Jackson—Warren Pullen interested in forming Warren Pullen & Co., new bonding company.

Mo., Clayton—Clayton Brokerage Co., 7911 Forsythe Bldg., capital \$10,000, organized with David L. Remley, Sr., Pres.; Alfred H. Kerth, Sec.-Treas.*

Mo., Greenfield—Bank of Greenfield organized with James N. Snadon, Pres.; John M. Adams, Sec. and Cashier; will take over building and business of Dade County Bank.

Mo., Plevna—Farmers' Bank, capital \$10,000, organized with J. E. Robertson, Pres.; C. C. Downing, Cashier.

Mo., St. Joseph—Union Credit Corp., capital \$50,000, incorporated by A. L. Gutar, Donnell Court, and R. D. Head, Gladys Plato.

Mo., St. Louis—J. Lionberger Davis, Federal Reserve Bank Bldg. is organizing Real Estate Mortgage Trust Co., with E. L. Mahan, Pres., with temporary office at 1211 Federal Reserve Bank Bldg.; Mr. Davis will be Chmn.

Mo., St. Louis—Empire Realty & Investment Co. incorporated by Louis E. Anfenger, 4961 W. Pine Blvd., Kalman J. Horwitz and others.

N. C., Chimney Rock—Chimney Rock Trust Co., capital \$50,000, chartered with J. H. Thomas, Pres., Forest City.

N. C., Durham—Durham Auction Co., capital \$50,000, incorporated by E. T. Newton, M. C. High and C. C. Edwards.

N. C., Siler City—Chatham Investment Co., capital \$30,000, organized with J. C. Greyson, Pres.; J. Q. Seawell, Sec.-Treas.*

S. C., Greenville—Bankers' Security Co., Inc., Norwood National Bank Bldg., capital \$50,000, chartered with R. S. Small, Pres.; Thomas L. Lewis, Sec.-Treas. and Gen. Mgr., Woodside Bldg.

Tenn., Memphis—Chickasaw Loan Assn., capital \$10,000, incorporated by A. W. Logan, Phil Goldstein and F. M. Henderson, Exchange Bldg.

Tex., Goliad—Southern Security & Investment Co., capital \$10,000, incorporated by Joseph W. Wearden, J. M. Rich and R. J. Byrne.

Tex., Navasota—Navasota Building & Loan Assn., capital \$250,000, chartered by E. G. Youens, C. E. Henry, G. W. Lott and others.

Tex., Waco—General Finance Co., capital \$10,000, chartered with Lee Lockwood, Pres.; T. D. Evans, 726 N. 13th St., Sec.-Treas.

Va., Odd—Citizens Bank of Poquoson, capital \$15,000, incorporated with H. P. Mooker, Pres.; L. N. VonSchilling, Sec., 45 Bank St.; both of Hampton, Va.

New Securities

Ala., Anniston—Park—City, J. L. Wikle, Mayor, voted \$40,000 bonds.*

Ala., Anniston—School—City, J. L. Wikle, Mayor, voted \$100,000 5% bonds.*

Ala., Livingston—Road and Bridge—Sumter County sold \$25,000 bonds to Sterne & Co., Birmingham, Ala., at 97.90.*

Ala., Mobile — Park and Improvement—City, R. V. Taylor, Mayor, will receive bids Aug. 4 for \$21,000, 5% bonds.

Ala., Russellville—Funding—Franklin County Court of Revenue, J. D. Petree, Judge of Probate, sold \$100,000 5½% bonds to Central State National Bank, Memphis, Tenn., at 103.20.*

Ark., Paragould—City sold \$39,000 Street Improvement Dist. No. 4 bonds to Paragould Trust Co.

Ark., Pine Bluff—Light and Power—Arkansas Light & Power Co. will sell \$2,500,000 6% gold bonds; H. G. Couch, Pres.

Fla., Bartow — Road and Bridge — Polk County Comms., Comms. Dist. No. 1, voted \$600,000 bonds. Address County Comms.

Fla., Bartow — Road — Polk County voted \$550,000 bonds. Address County Comms.*

Fla., Bradenton—Park—City, L. L. Hine, Clk., will receive bids July 18 for \$20,000 6% bonds.

Fla., Clearwater—Road—Pinellas County, Tarpon Springs Dist., contemplates \$400,000 bond issue; C. S. Boyd, Engr., Northern Pinellas County Road Construction.

Fla., Fort Pierce—Municipal Improvement—City voted \$500,000 bonds, including \$125,000 water, \$60,000 sanitary sewers, \$40,000 storm sewers, \$34,000 streets and viaducts, \$70,000 paving street intersections, \$20,000 concrete bridges over canal, \$40,000 acquisition and development of parks, \$10,000 seawall, \$10,000 fire station and city hall, \$50,000 administration building and city hall, \$20,000 incinerator, \$20,000 municipal wharves. Address The Mayor.*

Fla., Gulfport—Improvement—Town, W. W. Swift, Clk., will receive bids July 24 for \$240,000 6% bonds; information on file and from W. F. Way, 548 3rd St. N., St. Petersburg, Fla.

Fla., Haskell—School—Polk County Board of Public Instruction, Bartow, Fla., will receive bids until July 15 for \$14,000 6% bonds; C. A. Parker, Sec. of Board.

Fla., Lake Wales—Improvement—Town, F. F. Woods, Clk., will receive bids this week for \$130,000 6% bonds.

Fla., Lakeland—Street Improvement—City, Anton Schneider, City Mgr., will receive bids July 18 for \$530,000, 6% bonds.

Fla., Madison — Paving — Madison County Chamber of Commerce, W. E. Algee, Sec., sold \$75,000, 6%, \$1000 denom. bonds to Caldwell & Co., 214 Union St., Nashville, Tenn., at par and premium of \$3550.*

Fla., Miami—Dade County Board of Public Instruction will receive bids July 14 for \$40,000 6% Special Tax School Dist. No. 3 bonds; Chas. M. Fisher, Sec.

Fla., Palatka—Municipal Improvement—City voted \$335,000 bonds, including \$60,000 parks and golf course, \$60,000 municipal docks, wharves and warehouse, \$25,000 purchase equipment for fire department, \$10,000 city jail and police station, \$60,000 widen, extend and repave streets, sidewalks and other ways, \$40,000 extend, enlarge and maintain present water works, \$40,000 extend sewerage system, \$15,000 white way, \$25,000 to liquidate equal amount of floating debt. Address The Mayor.*

Fla., Pensacola—School—Escambia County sold \$6000, 6% Special Tax School Dist. No. 4 bonds to Wright, Warlow & Co., Orlando, Fla., at 95% par value with accrued interest.*

Fla., Plant City—Municipal Improvement—City sold \$45,000 6% bonds to Wright, Warlow & Co., Orlando, Fla.

Fla., Sebring—Municipal Improvements—City will vote July 29 on \$310,000 bonds, including \$135,000 extending and improving light and water system, \$50,000 seawall and municipal pier, \$50,000 street improvement, \$30,000 sewer system, \$45,000 municipal golf course; A. E. Lawrence, Mayor.

Fla., St. Petersburg—City, S. S. Martin, Director of Finance, sold \$1,453,000, 5¼% bonds to Caldwell & Co., 214 Union St., Nashville, Tenn., and Otis & Co., Cleveland, Ohio, at \$1,507,932.40 and accrued interest.*

Ga., Columbus—Municipal Improvements—City, Walter A. Richards, Mgr., will receive bids July 15 for \$900,000 bonds.*

Ky., Calhoun—Drainage—McLean County sold \$218,287.10 bonds to Caldwell & Co., Nashville, Tenn.

Ky., Mayfield—Road—Graves County, J. W. Monroe, County Judge, will vote Aug. 2 on \$500,000 bonds.

La., Greenwood—School—City sold \$208,000 bonds to Bank of Commerce & Trust Co., Minneapolis, Minn., at premium of \$2587.*

La., Napoleonville—Drainage—R. C. Martin, Pres. Board of Comms., will receive bids July 15 for \$180,000 5½% \$1000 denom. Assumption Parish Drainage Dist. No. 2 bonds.

La., Oak Grove—Water and Light—City sold \$45,000 bonds to Whitney Central Trust & Savings Bank, New Orleans, La., at premium of \$350.*

La., Oberlin—Road—Allen Parish, Road Dist. No. 4 Ward 4, voted \$150,000 bonds. Address Parish Police Jury.*

Md., Annapolis—State, John M. Dennis, Treas., will receive bids Aug. 12 for \$250,000 4½% Baltimore-Southern Maryland Trunk Line Loan of 1922.

Md., Annapolis—General Construction and University Hospital—State of Maryland, John M. Dennis, Treas., will receive bids Aug. 12 for \$378,000 4% general construction loans of 1924, and \$75,000 4½% University Hospital loans of 1924.

Md., Baltimore—Public Improvements—City, Frederick A. Dolfield, City Register, plans voting Nov. 4 on following loans: Streets and Bridges, \$7,000,000; sewers, \$10,000,000; municipal buildings, as annex to City Hall, \$2,000,000; electrical conduits, \$1,500,000; art museum, \$1,000,000; Howard W. Jackson, Mayor.

Md., Denton—Public Improvement—Town Comms., will receive bids July 23 for \$15,000 5% bonds; Wm. S. Crouse, Clk.

Md., Frederick—First Mortgage and Refunding Potomac Edison Co. authorized issuance of \$1,000,000 bonds; M. F. Riley, Pres., Hagerstown, Md.

Md., Frederick—School—Frederick County sold \$95,000 4½% bonds to Baker, Watts & Co., Calvert and Redwood Sts., Baltimore, for \$104,57.*

Md., Hyattsville—Washington Suburban Sanitary Comm., Evans Bldg., 1420 New York Ave. N. W., Washington, D. C., will receive bids July 11 for \$500,000 4½% Series I Washington Suburban Sanitary Dist. bonds.

Miss., Brookhaven—Funding Indebtedness—Lincoln County sold \$75,000 6% \$1000 denom. bonds to Sutherlin, Barry & Co., Hibernia Bldg., New Orleans, La.

Miss., Jackson—Street Improvement—City sold \$181,000 5¾% bonds to Sidney Spitzer & Co., Toledo, Ohio, at premium of \$300,000.

Miss., Woodville—Road—Wilkinson County sold \$20,000 \$1000 denom. bonds to Canton Exchange Bank at par.

Miss., Woodville—Road—Wilkinson County Supvr. Dist. No. 3 sold \$75,000 5½% \$500 denom. bonds to Hibernia Securities, Inc., New Orleans, La.

Mo., Burlington Junction—Water and Sewer—City voted \$75,000 bonds, including \$42,000 for water, and \$33,000 for sewers. Address The Mayor.

Mo., St. Joseph—Direct Obligation—City sold \$25,000 5% \$1000 denom. bonds to Lewis W. Thompson & Co.*

N. C., Albemarle—Street Improvement—City sold \$100,000 6% \$1000 denom. bonds to Hanchett, Bond & Co., Chicago, Ill., at premium of \$1067.91.

N. C., Asheville—School—Buncombe County sold \$75,000 5½% \$1000 denom. Woodfin School Dist. bonds to Spitzer, Rorick & Co., Toledo, Ohio.

N. C., Chadbourn—School—Columbus County, Board of Comms., Whiteville, will receive bids this week for \$25,000, \$1000 denom. Chadbourn Township School Dist. No. 3 bonds; Kathleen Baldwin, Clk.

N. C., Danbury — Road Improvement—Stokes County Comms. sold \$60,000 6% \$1000 denom. bonds to C. W. McNear & Co., 76 W. Monroe St., Chicago, Ill., at 66,088.89 and accrued interest.*

N. C., Elkin—Street Improvement, Water Works—City will receive bids July 11 for \$45,000 6% \$1000 denom. bonds, including \$25,000 street improvement and \$20,000 water.

N. C., Elizabeth City—Street Paving, Funding and Refunding—City contemplates \$75,000 bond issue, including \$39,300 funding and refunding, and \$35,700 street paving, etc.; J. H. Snowden, Clk.

N. C., Fayetteville—Street Improvement—City, H. J. McBride, Clk., will receive bids July 14 for \$200,000 6% bonds. Lately noted bids until June 23.

N. C., Granite Quarry — School — Rowan County Comms. sold \$25,000 5½% School Dist. No. 7 bonds to Campbell & Co., Nashville, Tenn., at par and accrued interest and premium of \$165.*

N. C., Red Springs—School—City voted \$75,000 bonds. Address Pres. Board of Trustees.*

N. C., Rutherfordton—School—Rutherford County, Henrietta and Caroleen Dist., contemplate selling \$150,000 bonds. Address Rutherford County Board of Education.

N. C., Rutherfordton — Street Paving — Town Comms., J. P. Flack, Clk., will receive bids this week for \$50,000, 6%, \$1000 denom. bonds.

N. C., Smithfield—Water Works—City sold \$30,000 6% bonds to W. L. Slayton & Co., Toledo, Ohio, at premium of \$1157.76.*

(Continued on page 114)

ADVERTISING

General and Direct Mail Service
HOVEN Automatic Typewriting
Multigraphing, Printing, Art Work



Adopts Kelly Kats as standard

After using many other types of truck tires, the Lauterbach Coal and Ice Company, of Cicero, Illinois, has adopted Kelly Kats as standard equipment on their fleet of trucks.

Read what they say in a recent letter:

"We wish to advise you of the service we are getting from Kelly Caterpillar tires.

"It took your representative a long time to get us to give them a trial but now we are thoroughly sold on them.

"We have used many other makes of tires but have now adopted Kelly Caterpillars as standard equipment on our fleet."

The experience of this firm is not unusual. When a fleet owner tries one set of Kelly Kats, he almost invariably puts them on his entire fleet.

The reason is that Kelly Kats give him a combination of traction, cushioning, mileage and low cost that he is unable to secure in any other type of tire.

**There are no Caterpillar
tires but Kelly Kats**

KELLY-SPRINGFIELD TIRE CO.

250 West 57th Street New York, N. Y.



One of a fleet of trucks owned and operated by the Lauterbach Coal and Ice Co., of Cicero, Ill. Kelly Kats have been adopted as standard equipment on this fleet.

**THIRTIETH ANNUAL REPORT
OF
SOUTHERN RAILWAY COMPANY
Year Ended December 31, 1923**

RICHMOND, VA., June 30, 1924.

To the Stockholders of the Southern Railway Company:

The Board of Directors submits the following report of the affairs of the Company for the year ended December 31, 1923:

INCOME ACCOUNT

The income account for the year 1923 (See table) was published on February 14, 1924. It shows a balance of \$15,136,998 over fixed charges compared with \$8,823,796 in 1922. The operating income is equivalent to 4.73% on the investment.

OPERATIONS

The gross revenue amounted to \$150,467,985, an increase of 17% over the preceding year.

The volume of revenue freight traffic, 8123 million ton miles, an increase of 24.73% over the 6513 million ton miles in 1922, approximated the high record of 8230 million ton miles reached in 1920. Freight of every kind played a part in this expansion. All of the seventy classes into which the traffic is divided for statistical purposes showed increases except seven relatively unimportant items. With an increase of 24.73% in ton miles (the revenue unit), the increase in freight train miles (the expense unit) was limited to 19.60%. This was possible by reason of an increase of 8.08% in the average train load. The average revenue per ton mile was 1.298c, a decline of 15.22% from the average of 1921.

From passenger traffic the revenue increased 11.54%, although there was no substantial change in the number of passengers carried and the rate of fare was not increased. The explanation is found in the longer average journey of 65.92 miles against 59.89 miles, an increase of 10.07%. The railroad enjoyed in full measure the expansion of long distance travel which comes with a year of business activity and individual prosperity, but continued to experience the loss of local travel to the automobile. In that connection it may be noted, however, that 180,329 tons of automobiles were hauled as freight in 1923 compared with 75,386 tons in 1922 and 58,133 tons in 1921. With an increase of 11.46% in passenger miles, passenger train miles increased only 3.07%, the average number of passengers per train being 8.14% greater.

From express traffic the railroad received \$2,652,890, an increase of 25% over the preceding year.

The ratio of operating expenses to gross earnings was 74.71% compared with 75.62% in 1922. The increase in operating expenses amounted to \$15,244,125, of which no less than \$10,708,460 is accounted for by larger expenditures for maintaining the property. The increase in transportation expenses was \$3,895,645. Out of each dollar of revenue 36.32c was required for transportation expenses compared with 39.50c the preceding year, a decline of 8.05%. With an increase of 8.08% in the average freight train load and an increase of 8.14% in passengers carried per passenger train mile the transportation expense per train mile was reduced 3.10%.

Taxes continued to climb, reaching a total of \$6,994,407, an increase of \$1,230,718, or 21.35%, over 1922. These figures do not include the indirect tax imposed upon a railroad by public authorities for the provision of public improvements from which no revenue is derived.

DIVIDENDS

On the preferred stock two semi-annual dividends totaling 5% were paid during the year. An initial quarterly dividend of 1 1/4% on the common stock was declared on March 13, 1924, and on June 12, 1924, the preferred stock also was placed upon a quarterly dividend basis.

PROPERTY INVESTMENT

The proceeds from the sale in November, 1923, of \$20,000,000 Development and General Mortgage bonds have been made available for the provision of additions and improve-

ments to the plant under a program for the expenditure of the money during the years 1924 and 1925 for the enlargement of yard, shop and freight station facilities, additional tracks and grade improvements.

Twenty-five new locomotives, 3500 new freight cars and 45 new passenger train cars were contracted for early this year and are now in process of delivery. The cost of this equipment was \$8,300,000, and the money was provided partly from current treasury funds and the remainder from the sale of \$6,600,000 Series "Y" 5% equipment trust certificates dated March 1, 1924, payable in thirty equal semi-annual installments. The benefits to be derived from liberal expenditures for new engines and cars have been strikingly demonstrated by the results during the year under review. New and heavier power contributed largely to the handling of a greatly increased volume of traffic without congestion and at relatively lower unit costs of train operation. The net charge against the Company for hire of equipment came down from \$4,213,019 in 1922 to \$2,042,237 in 1923, notwithstanding an increase of 24.73% in freight ton miles and despite the necessary retiring of 8757 old freight cars from service during the year.

INDUSTRIAL AND AGRICULTURAL DEVELOPMENT

One hundred and ninety-six new industrial enterprises were established and 188 previously existing plants were enlarged in the territory served by Southern Railway System during the year 1923, classified as follows:

	New Plants	Enlargements
Textile	51	131
Lumber	36	8
Mines and Quarries.....	17	3
Building materials	12	4
Furniture	10	7
Iron and Steel.....	9	12
Flour and Feed.....	5	1
Miscellaneous	56	22
	196	188

The Southern textile industry continued during the year the remarkable growth which has marked its development in recent years. There was a net increase of 782,665 new spindles in the South. In states outside of the South there was a net decrease of 92,510 spindles. The temporary depression from which the textile industry as a whole is now suffering affords some striking statistics of the relatively fortunate position of the Southern mills. In the four months from January 1, 1924, to April 30, 1924, the mills of the South consumed more than twice as much cotton as did the other mills of the country. The amount of cotton used in manufacture in the South was 6.84% less than for the same four months of 1923. For the rest of the country this decrease was 36.03%.

Aside from the temporary ill effects of a backward planting and growing season, the generally improving tendency in agricultural conditions in the South continues. A better understanding of the problem of cotton raising under boll weevil conditions, as well as crop diversification and animal husbandry, is contributing to this improvement. The large fruit crops in prospect should find profitable markets.

The pace set by industry in 1923 has slowed down during the last few months in the South as elsewhere. Nevertheless, the recognition that fundamental conditions are sound holds forth the promise of a continuance of business activities at the prevailing level until consumption and demand again shall afford the needed impetus to the resumption of the forward stride.

To all officers and employees who have faithfully and efficiently performed their duties the thanks of the Board of Directors again are tendered.

Respectfully submitted, by order of the Board,

FAIRFAX HARRISON,

President.

Table 1.—INCOME STATEMENT

	1923	1922
OPERATING REVENUES:		
Freight	\$105,439,499.17	\$88,091,271.82
Passenger	33,756,011.37	30,264,513.62
Miscellaneous Passenger-Train	1,111,905.67	1,011,274.09
Mail	2,985,727.24	2,895,131.29
Express	2,652,890.25	2,123,943.67
Other Transportation	1,375,232.42	1,382,463.59
Incidental	2,387,089.75	1,970,737.25
Joint Facility	759,629.36	750,511.78
TOTAL OPERATING REVENUES	\$150,467,985.23	\$128,489,847.11
OPERATING EXPENSES:		
Maintenance of Way and Structures	\$20,680,325.55	\$17,295,516.53
Maintenance of Equipment	29,251,199.43	21,927,548.14
Traffic	2,908,426.91	2,479,929.27
Transportation	54,649,659.19	50,754,013.50
Miscellaneous Operations..	1,052,633.51	954,922.06
General	3,893,773.32	3,760,406.66
Transportation for Investment—Credit	21,759.24	2,203.02
TOTAL OPERATING EXPENSES	\$112,414,258.67	\$97,170,133.14
NET REVENUE FROM OPERATIONS	\$38,053,726.56	\$31,319,713.97
TAXES	\$6,994,407.26	\$5,763,689.46
UNCOLLECTIBLE REVENUES	47,388.42	89,821.17
HIRE OF EQUIPMENT	2,042,236.94	4,213,018.62
JOINT FACILITY RENTS	841,557.10	780,406.70
TOTAL OTHER EXPENSES	\$9,925,589.72	\$10,846,935.95
OPERATING INCOME	\$28,128,136.84	\$20,472,778.02
NON-OPERATING INCOME:		
Income from Lease of Road	\$63,957.24	\$62,096.62
Miscellaneous Rent Income	268,822.49	268,967.95
Miscellaneous Non-Operating Physical Property..	133,728.20	108,587.05
Dividend Income	1,565,674.80	2,951,025.54
Income from Funded Securities	938,815.80	632,487.69
Income from Unfunded Securities and Accounts	612,285.51	463,806.02
Miscellaneous Income	882.69	3,503.42
TOTAL NON-OPERATING INCOME	\$3,584,166.73	\$4,483,467.45
TOTAL GROSS INCOME.....	\$31,712,303.57	\$24,956,245.47
DEDUCTIONS FROM TOTAL GROSS INCOME:		
Rent for Leased Roads....	\$2,656,961.82	\$2,556,759.81
Miscellaneous Rents	31,285.86	36,142.15
S e p a r a t e l y Operated Properties	543,124.06	528,304.93
Interest on Unfunded Debt	50,110.17	191,928.74
Miscellaneous Income Charges	158,654.97	177,552.26
TOTAL DEDUCTIONS OF THIS CLASS	\$3,440,136.88	\$3,490,687.89
TOTAL AVAILABLE INCOME	\$28,272,166.69	\$21,465,557.58
INTEREST ON FUNDED DEBT....	\$11,665,046.67	\$11,629,788.98
INTEREST ON EQUIPMENT OBLIGATIONS	1,244,113.80	785,964.00
DIVIDEND ON SOUTHERN RAILWAY — MOBILE AND OHIO STOCK TRUST CERTIFICATES	226,008.00	226,008.00
TOTAL DEDUCTIONS OF THIS CLASS	\$13,135,168.47	\$12,641,760.98
BALANCE OF INCOME OVER CHARGES	\$15,136,998.22	\$8,823,796.60
DIVIDEND ON PREFERRED STOCK	3,000,000.00	1,500,000.00
BALANCE CARRIED TO CREDIT OF PROFIT AND LOSS	\$12,136,998.22	\$7,323,796.60

(CONTINUED ON NEXT PAGE)

Table 2.—PROFIT AND LOSS.

Credit Balance December 31, 1922.....	\$60,061,352.70
Add:	
Credit Balance of Income for the Year....	\$12,136,998.22
Net Miscellaneous Credits..	153,147.49
	12,290,145.71
	\$72,351,498.41
Deduct:	
Property Retired	\$193,390.51
Discount on Securities Sold	1,845,307.14
Securities and Accounts Written Off	1,613,403.64
Appropriated for Non-productive Capital Charges required by Public Authorities	1,186,124.75
Credit Balance December 31, 1923.....	4,838,226.04
	\$67,513,272.37

Table 3.—GENERAL BALANCE SHEET.
ASSETS.

	DECEMBER 31, 1923.	DECEMBER 31, 1922.
INVESTMENTS:		
Investment in Road	\$354,066,936.39	\$351,338,736.06
Investment in Equipment..	107,712,631.53	94,940,839.63
Total Investment in Road and Equipment..	\$461,779,567.92	\$446,279,575.69
Funds Appropriated for Construction	\$18,589,406.26	
Proceeds from sale of Mortgaged Property, held by Trustees for Reinvestment	\$684,147.31	\$456,650.00
Miscellaneous Physical Property	\$1,016,020.05	\$1,005,461.82
INVESTMENTS IN AFFILIATED COMPANIES:		
Stocks	\$35,147,261.75	\$35,224,658.76
Bonds	24,935,973.19	25,936,072.69
Notes	4,674,201.57	4,448,896.53
Advances	2,731,681.16	4,119,201.08
Total Investments in Affiliated Companies	\$67,489,117.67	\$69,728,829.06
OTHER INVESTMENTS:		
Stocks	\$93,808.00	\$93,908.00
Bonds	2,429,003.21	2,643,913.45
Notes	120,892.79	193,836.02
Advances for Purchase of Additional Equipment..		5,921,846.50
Total Other Investments	\$2,643,704.00	\$8,853,503.97
Total Investments	\$552,195,963.21	\$526,324,020.54
CURRENT ASSETS:		
Cash	\$9,975,262.26	\$14,158,943.26
United States Treasury Notes (Par Value \$10,000,000.)...	9,984,187.51	
Special Deposits	2,824,975.40	2,885,448.80
Loans and Bills Receivable	34,967.92	29,152.61
Traffic and Car Service Balances Receivable	1,765,847.49	1,578,482.03
Balances due from Agents and Conductors	92,329.69	155,170.36
Miscellaneous Accounts Receivable	6,375,645.69	8,477,471.26
Material and Supplies....	17,194,734.59	12,374,602.96
Interest and Dividends Receivable	632,555.55	1,052,518.06
Other Current Assets	256,119.08	438,664.63
Total Current Assets...	\$49,136,625.18	\$41,150,453.94
DEFERRED ASSETS:		
Working Fund Advances....	\$72,402.43	\$51,993.78
Cash and Securities in Insurance Fund.....	900,658.76	879,450.32
Cash Deposited under North Carolina Railroad Lease..	175,000.00	175,000.00
Other Deferred Assets	172,823.67	74,065.40
Total Deferred Assets..	\$1,320,884.86	\$1,180,509.50
UNADJUSTED DEBITS:		
Insurance Premiums and Rents paid in Advance...	\$4,836.52	\$9,821.54
Discount on Funded Debt..		253,715.62
Additions and Betterments		
Expenditures: Freight Claims: Foreign Mileage and Sundry Items in Suspense	4,015,467.86	4,361,829.91
Total Unadjusted Debits	\$4,020,304.38	\$4,625,367.07

Table 2—GENERAL BALANCE SHEET—Cont.
ASSETS—Cont.

Securities of the Company held by it:

Unpledged:

1923: \$31,171,200.00

1922: \$46,171,200.00

GRAND TOTALS \$606,673,777.63 \$573,280,351.05**Table 3.—GENERAL BALANCE SHEET.**
LIABILITIES

CAPITAL STOCK:	DECEMBER 31, 1923.	DECEMBER 31, 1922.
Common	\$120,000,000.00	\$120,000,000.00
Preferred	60,000,000.00	60,000,000.00
Total Southern Railway Company Stock	<u>\$180,000,000.00</u>	<u>\$180,000,000.00</u>
Southern Ry.-Mobile & Ohio Stock Trust Certificates..	<u>\$5,650,200.00</u>	<u>\$5,650,200.00</u>
 LONG TERM DEBT:		
Funded Debt	\$259,213,500.00	\$239,213,500.00
Equipment Trust Obligations	26,049,400.00	22,416,600.00
Total Long Term Debt	<u>\$285,262,900.00</u>	<u>\$261,630,100.00</u>
Total Capital Liabilities	<u>\$470,913,100.00</u>	<u>\$447,280,300.00</u>

GOVERNMENTAL GRANTS:

Grants since July 1, 1914, in
aid of Construction\$214,150.34 \$214,550.34

CURRENT LIABILITIES:

Traffic and Car Service Balances Payable	\$1,850,846.77	\$2,137,152.80
Audited Accounts and Wages Payable	15,996,797.22	14,956,767.56
Miscellaneous Accounts Payable	1,515,220.49	1,545,733.42
Interest Matured, including interest due January 1st..	2,794,118.60	2,816,452.50
Dividends Matured Unpaid..	1,625.00	6,192.50
F unded Debt Matured Unpaid	29,581.80	62,833.80

N. C., Statesville—Road and Bridge—Iredell County, W. H. Morrow, Register of Deeds, will receive bids this week for \$200,000 6% bonds.

N. C., Wilkesboro—Sewer—Town, Chas. Y. Gilreath, Mayor, will receive bids this week for \$16,000, 6%, \$500 denom. bonds.

Okla., Chandler—Road—Lincoln County defeated \$990,000 bond issue. Address County Commrs.*

S. C., Clinton—Water and Sewer—City will vote on \$100,000 bonds, including \$70,000 for water and \$30,000 for sewer extensions. Address The Mayor.

S. C., Estill—School—Board of Trustees, M. M. Chisholm, Chmn., will receive bids July 22 for \$26,000 5½% or 6% bonds.*

S. C., McColl—Street Improvement—City sold \$50,000 5½% bonds to A. C. Heymord & Co. at 98.

S. C., Union—Refunding—City, Edward B. Smith, Mayor, will receive bids July 15 for \$80,000 bonds.

Tenn., Brownsville — Highway — Haywood County sold \$150,000 5½% \$1000 denom. bonds to American National Co., 235 3rd Ave. N, Nashville.

Tenn., McMinnville — Highway — Warren County sold \$90,000 5½% coupon bonds to Caldwell & Co., Nashville, Tenn., at premium of \$1740.

Tex., Austin—City Hospital—City plans calling elector soon to vote on \$75,000 bonds. Address W. L. Yett.

Tex., Boston—Road—Bowie County sold \$490,000 bonds to E. W. Thomas, Dallas, for account of Weil, Roth & Irving Co., Cincinnati, and R. M. Grant & Co., New York.*

Tex., Bryan—Street Paving—City voted \$15,000 bonds; E. E. McAdams, Mayor.*

Tex., Colorado—City Hall—City contemplates voting on bonds. Address The Mayor.

Tex., Gilmer—Sewer—Water—City sold \$28,000 5½% sewer bonds and \$22,000 6% water bonds to Federal Commerce Trust Co., St. Louis, at 103.*

Tex., Jacksonville—Paving—City will vote July 15 on \$100,000 5½% bonds. Address The Mayor.*

Tex., Karnes City—Road—Karnes County defeated \$125,000 bonds; H. R. Sutherland, County Judge.*

Tex., Karnes City—School—Karnes City voted \$40,000 6% bonds; will receive bids July 25 for bonds; L. A. King, Pres. School Board.*

Tex., Kerens—Water Works—City contemplates bond election. Address The Mayor.

Tex., Marahachie—Road—Ellis County sold \$300,000 Road Dist. No. 1 bonds to Garrett & Co., Dallas.

Tex., McAllen—Paving—City voted \$60,000 bonds; F. B. Freeland Mayor.*

Tex., Navasota—Street Paving—City will vote July 15 on \$75,000 bonds. Address The Mayor.

Tex., Palestine—School—City voted \$110,000 bonds. Address School Board.*

Tex., Prairie Lea—School—Prairie Lea Independent School Dist. will vote July 15 or \$15,000 bonds. Address Pres. Board of Trustees.

Tex., Refugio — Road — Refugio County, Woodsboro Road Dist. No. 2, will vote July 19 on \$150,000 bonds. Address County Commissioners.

Tex., Roby—School—City voted \$40,000 bonds. Address Board of Education.

Unmatured D i v i d e n d s		
Accrued	56,502.00	56,502.00
Unmatured Interest Accrued	2,249,561.40	1,907,621.49
Unmatured Rents Accrued..	311,153.49	323,947.33
Expenses Accrued not vouchered	2,058,378.57	1,736,242.59
Other Current Liabilities....	1,470,943.78	1,348,646.36
Total Current Liabilities	<u>\$28,334,729.12</u>	<u>\$26,898,092.35</u>

DEFERRED LIABILITIES:

Sundry Deferred Liabilities \$2,147,188.39 \$1,614,778.08

UNADJUSTED CREDITS:

Taxes	\$2,465,064.11	\$1,899,764.30
Insurance Reserve	1,300,658.76	1,279,450.32
Operating Reserves	1,199,542.16	1,339,825.61

Depreciation accrued on: Rail leased to Other Companies	129,776.08	144,144.73
Equipment Owned.....	24,733,867.21	25,325,088.81
Equipment Leased from Other Companies	570,205.15	622,125.13
Sundry Items	4,111,933.14	4,769,753.08
Total Unadjusted Credits	<u>\$34,511,046.61</u>	<u>\$35,380,151.98</u>

CORPORATE SURPLUS:

Additions to property, since
June 30, 1907, through In-
come and Surplus..... \$1,812,075.89 \$1,809,532.42

Appropriated Surplus since January 1, 1921, for Non- productive Capital Charges required by P u b l i c Authorities	1,206,626.73	
Miscellaneous	21,593.18	21,593.18
Total Appropriated Surplus	<u>\$3,040,295.80</u>	<u>\$1,831,125.60</u>
Profit and Loss—Balance..	<u>\$67,513,272.37</u>	<u>\$60,061,352.70</u>
GRAND TOTALS	<u>\$606,673,777.63</u>	<u>\$573,280,351.05</u>

Tex., San Benito—Sewer—City will vote
July 22 on \$20,000 sewer bonds. Address
City Sec.Tex., Stephenville—Road—Erath County
Coleman D. Nichols, County Clk., will re-
ceive bids July 14 for \$35,000 Road Dist.
No. 2 Series B, bonds.*Tex., Sulphur Springs—County Hospital—
Hopkins County voted \$100,000 bonds; R. E.
Bertram, County Judge.Tex., Temple—City, H. J. Graeser, Mgr.,
voted \$50,000 bonds.*Tex., Waco—School—City voted \$100,000
bonds. Address Geo. D. Field.*Va., Fort Myer Heights—Road—Arlington
County, Arlington Dist., contemplates \$326,-
000 bond issue; Capt. John T. Talman, County
Supt. of Roads.Va., Harrisonburg—Municipal Improve-
ment—City sold \$100,000 5% bonds to
Frederick E. Nolting & Co., Richmond, at
premium of \$1850.Va., Norfolk—Refunding—City plans sell-
ing \$3,701,000 bonds. Address City Mgr.
Causey.W. Va., Beckley—Municipal Improvement—
City voted \$100,000 bonds, including \$50,000
street paving, \$38,000 sewerage, \$12,000 fire
equipment. Address The Mayor.W. Va., Fairmont Municipal Improvement
—City, Albert J. Kern, Clk., will vote in
Aug. on \$500,000 bonds for street improve-
ment, incinerator, aerial fire truck.W. Va., Winfield—Road—Putnam County
sold \$750,000 Pocotaligo Road Dist. No. 1
bonds to State of West Virginia at par.

(Continued on page 115)

W. Va., Williamson—Road—State Sinking Fund Comn. sold \$280,000, 5½% Stafford Dist., Mingo County bonds to Well, Roth & Irving Co., Cincinnati, Ohio, at \$285,096.88, covering par and accrued interest.

Financial Notes

Caldwell & Company, investment bankers, with home office in Nashville, Tenn., are offering a bond issue of \$560,000 on the Hermitage Portland Cement Co. of Nashville, which was established about a year and a half ago and the new plant was placed in operation last February. The bond issue is to retire outstanding short-term obligations incurred in the purchase of machinery, and to furnish additional working capital.

Empire Trust Co., W. M. Stovall, Pres., Atlanta Trust Co. Bldg., Atlanta, Ga., will increase capital from \$100,000 to \$200,000.

Victoria Building and Loan Assn., W. P. Reed, Pres., Victoria, Va., increased capital from \$100,000 to \$300,000.

Wachovia Bank & Trust Co., Salisbury, N. C., merged with Salisbury Bank & Trust Co.

Merchants Bank of Lineville and Citizens' National Bank of Lineville, Ala., consolidated under name of Farmers & Merchants Bank; will increase capital from \$25,000 to \$50,000.

Richmond Title & Abstract Co., Richmond, Va., has changed name to Richmond Title & Guaranty Co.

Tennessee Valley Bank, Decatur, Ala., plans merging with Alabama Bank & Trust Co., Cullman, Ala.

Union Trust Co. and Banking Trust & Mortgage Co., Petersburg, Va., merged under name of Union Trust & Mortgage Co.*

numerous machines as installed in water gas plants, coal gas plants, and coke ovens, also as used as boosters in city gas distribution. Such blowers and compressors are usually driven by steam turbines of the velocity stage or pressure stage type, depending upon the size and steam economy desired, or by electric motor. Besides the description of structural details, the publication contains chapters on blower and compressor characteristics and testing, together with a theoretical and practical treatment of the compression of gases and of the flow of gases through pipes and conduits.

A Complete Ladle Catalogue.

The Whiting Corporation, manufacturers of cranes, foundry equipment and railway specialties, Harvey, Ill., has issued its new catalogue of ladles, which is designated as No. 172 and supersedes No. 161. This publication, which is just from the printers, contains a complete description of the various types of ladles made by the company, accompanied by tables of standard sizes; also, cuts of repair parts and a repair part list. Details of construction are pictured as well as described.

(Continued on page 118)

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Write for prices.

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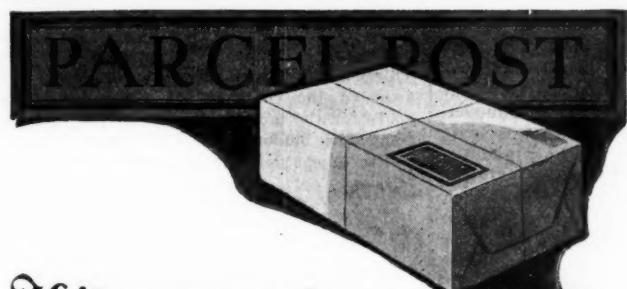
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Inquiries invited from municipalities and contractors.
We buy city, county, district, school, road, lighting,
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111 West Monroe St.

A Book About Electricity on Farms.

The General Electric Company, Schenectady, N. Y., has issued the "G-E Farm Book," the primary purpose of which is to give information generally applicable throughout the country to the problems of rural electrification. Engineering forces are everywhere interested in the task of giving the farmer the use of electric current, and the contents of this 40-page booklet will be widely appreciated. The company has attempted to present the subject of electricity on the farm in a practical way and it has aimed to include only information of value to everyone concerned in

it. Electricity is now available on farms, first, through the extended service of electric light, heat and power companies in different sections, and, secondly, through individual generating plants, some driven by gasoline engines, and others by waterpower where a swift stream is convenient, and a few by windmills. Electricity is now used on farms not only for lighting, but for many other purposes too numerous to mention. Its power applications cover a wide range of usefulness. For instance, cows are milked by electric milking machines, and electric incubators hatch out innumerable eggs.

INDUSTRIAL NEWS OF INTEREST

Items of news about industrial, railroad or financial interests, building operations, construction work, municipal improvements, or the sale of machinery or the letting of contracts in the South or Southwest, are invited from our readers whether they are advertisers, or subscribers or not. We invite information of this character from readers in the North and West about their Southern business operations, as well as from Southern readers. News of value will be published just as readily when from non-advertisers as from advertisers.

Manufacturers' Agency.

G. P. Montgomery has opened an office at Greensboro, N. C., as manufacturers' agent, starting with Fairbanks, Morse & Co.'s complete line of products and the "Protectolite," a night-driving lamp for automobiles. His address is P. O. Box 1384.

Electric Railway to Be Sold.

According to a formal announcement which appears elsewhere in this issue the electric street railway property, comprising the line that connects Burlington, Graham and Haw River, N. C., about 8½ miles long, will be sold at public auction at Graham, N. C., at 11 o'clock A. M. July 21. The sale will include the equipment consisting of cars, an electric locomotive and other facilities. J. H. Bridgers of Henderson, N. C., is receiver. Further particulars will be found in the advertisement.

Improved Punch and Bar Cutters.

An improved method of effecting plunger engagement which insures more positive action has been developed by the Buffalo Forge Company, Buffalo, N. Y., in their series of single end punch and bar cutters. These machines are designated according to size as numbers 44, 45, 46, 47, 48, 50 and 51. The new design consists of a block and ram controlled by a counterweighted lever. The block occupies a stationary position, while the ram which actuates the plunger moves in a semi-circular direction and seats on the tool steel block. The counterweight on the controlling lever automatically throws the plunger into an engaged or disengaged position; a semi-engaged position is impossible. The operation of the punch is simple and accurate.

Shipping Cotton to Russia.

Savannah, Ga., July 7.—[Special]—The Norwegian steamer John Blumer, loaded by the Strachan Shipping Company with 8000 bales of cotton for discharge at Murmansk, Russia, sailed recently from this port. The shipment was purchased by a textile syndicate in Russia controlling 400 mills, it is understood, and was one of 17 shipments planned and partly completed since February 1 from Savannah, Norfolk and New Orleans. The cotton handled from Savannah for Russia comes from South Carolina, Georgia and Alabama, and is of the highest quality.

When the schedule is completed, nearly 162,000 bales will have moved through the three ports mentioned for Russia. Of this quantity, Savannah is expected to ship nearly 55,000 bales. The cotton sent through Savannah probably furnishes the first full cargoes from this port to Russia since the World War, and business men see in the shipments a return of foreign trade and a reopening of the European market, so long closed to American cotton.

Shippers and business men here are looking to a slow but sure pick-up in the shipment of cotton and other commodities to Europe, and are looking forward to a good foreign trade this fall and winter.

New Contractors and Dealers' Exchange.

Achievement in the first four months of its existence and activity for the future were detailed recently by George W. Leavitt, executive director of the New Orleans Contractors and Dealers' Exchange, Inc., which was four months old on the fifth of July. "The personality, good judgment and lavish personal effort of Robert W. Wolcott, general

Contract for Rolling Steel Doors.

The J. G. Wilson Corporation, 11 East Thirty-Sixth street, New York, have been awarded the contract for 120 rolling steel doors for the municipal piers at Norfolk, Va., being low bidders for this equipment. The contract was let by the Norfolk Port Commission.

Ice and Refrigerating Machinery.

Since their last report of May 20 the York Manufacturing Co., manufacturers of ice-making and refrigerating machinery, York, Pa., have made 300 sales and installations of their products throughout the country, including 85 at different places in the South and Southwest as follows: Anniston, Ala.; Port Arthur, Tex.; Tulsa, Okla.; Junction City, Tenn.; Piedmont, Ala.; Detour, Md.; Indianola, Miss.; Natchez, Miss.; Kenova, W. Va.; Cordova, Ala.; Belair, Md.; Frost, Tex.; Shreveport, La.; Mound City, Mo.; El Paso, Tex.; Clyde, Mo.; St. Louis, Mo.; St. Joseph, Mo.; Dallas, Tex.; Mount Vernon, Mo.; Waxahachie, Tex.; Kerens, Tex.; Temple, Tex.; Jacksonville, Fla.; Staunton, Va.; Wheeling, W. Va.; Cass, W. Va.; Crossett, Ark.; Bryan, Tex.; Holdenville, Okla.; Abilene, Tex.; Chatham, Va.; Covington, Ky.; Cullman, Ala.; Tampa, Fla.; Shannon, Ala.; Columbia, Tenn.; Monroe City, Mo.; Macon, Ga.; Oklahoma City, Okla.; Baltimore, Md.; Columbus, Ga.; Gillett, Ark.; Norfolk, Va.; Ardmore, Okla.; Corsicana, Tex.; Winnsboro, Tex.; Bowie, Tex.; Rome, Ga.; Fairmont, W. Va.; Bowie, Md.; Sulphur, Okla.; Louisville, Ky.; Longview, Tex.; Waco, Tex.; Logan, W. Va.; Ferris, Tex.; Kingsville, Tex.; Richmond, Va.; Thomas, W. Va.; Altavista, Va.; Sturgis, Ky.; Gatesville, Tex.; Grayson, Ky.; Wilson, N. C.; Bogalusa, La.; Navasota, Tex., and Roanoke, Va. At each of several of these places two or more installations were made.

manager of the Lukens Steel Company," as president of the new exchange are largely credited by Mr. Leavitt for its success.

The new exchange was organized on February 5, last and at once adopted a progressive program. Ten teams in a membership drive enlisted 100 additional members, and a number of active committees were appointed. "Particular effort" is to be made to secure applications for membership from homestead companies, real estate firms and banks, "all of which are keenly interested in many of the activities of the Exchange," as Mr. Leavitt puts it.

City Planning for Half a Century.

Asheville, N. C., July 7.—[Special]—An experiment in scientific town planning and building in anticipation of 50 years' growth has been inaugurated by E. W. Grove of St. Louis and Asheville, who proposes that Grovemont-on-Swannanoa shall be an example of what a municipality can be when planned from the beginning by experts who take the same pains with town building that architects exert in constructing houses.

Some time ago Mr. Grove said he observed that the average American city is a creature of chance and of uncontrolled growth. As a rule, "it just happened." In consequence, the usual American city is a queer mixture of beauty and ugliness, of efficiency and of inefficiency. Mr. Grove proposes to reverse the usual tendencies in American city building and is planning and building a town from the ground up. A well-ordered plan is being followed, and Grovemont-on-Swannanoa, he believes, will be an object-lesson of larger significance, and not permitted, like Topsy, "just to grow up."

Two Big Plants for Houston—To Make Linde Air and Presto-Lite Products.

Regarding recent reports that the Linde Air Products Co. and the Presto-Lite Co., Inc., both subsidiaries of the Union Carbide Co., Inc., of New York, will build plants at Houston, Tex., the Union Carbide Co., Inc., advises the MANUFACTURERS RECORD that plans for the plants have just passed the property-buying stage and information as to construction and equipment is not yet available.

It is stated that the Presto-Lite plant will probably embrace ten buildings of fireproof construction, to be erected on the Houston Belt & Terminal track opposite the Hughes Tool Co., while the Linde Air plant will be located on a two-acre site at Harrisburg boulevard and Holly street. The former will employ about 50 workmen at first and the latter 40. Acetylene gas is the product of the Presto-Lite plant and oxygen that of the Linde Air plant.

"Home-Comers" Warmly Welcomed in Kentucky.

In observance and in honor of "Home Coming" week, the Louisville Courier-Journal on June 17 issued a special "Kentucky Home-Coming Editorion," filled with facts of interest on the history of the state, its development on innumerable lines, its resources, its industries and its potentialities. In conclusion of its words of welcome, the introduction said:

"But no mere word of pen can make Kentuckians love Kentucky more, no more than any human act can sever the ties that bind them forever to the land they love. Kentuckians do not love their state merely because of all its wealth or history. They love their land because it is their own, and scorn to give aught other reason why."

Of great interest among the many illustrations were several pictures in parallel columns, entitled "Then and Now is Kentucky," depicting, for instance, Main street, Louisville, as it looks today and as it was in 1846; a modern Ohio River

steamer and some of these operating 78 years ago; the fashionable residence of a present-day Kentuckian and the old fort at Boonesborough, where the first pioneers lived in their own-made cabins, together with a likeness of Gen. George Rogers Clark, founder of Louisville, and a picture of Daniel Boone's statue, where "the Pathfinder still keeps watch" in Cherokee Park, Louisville.

Preparations were made to receive and entertain most hospitably at least 100,000 "home-comers," and it is understood that the number ran fully up to expectation.

Fruit and Vegetable Shipments Along the Rio Grande.

Harlingen, Texas, July 1.—[Special.]—Winter and spring vegetables and citrus fruit shipments out of the lower Rio Grande Valley during the past season showed an enormous increase over the 1922-1923 period, according to figures just compiled by the St. Louis, Brownsville & Mexico Railroad traffic department. The shipments from Valley points over this line for the 1923-24 season up to June 21 totaled 12,504 cars by freight, 264 express cars and less carload shipments by express, equivalent to 495 express cars. Cabbage was by far the leading product of the Valley, showing 6571 freight cars, the potato shipment being second with 2509 cars. March and April were the heaviest months, April leading with 3974 cars, which is the average for the Valley for a year. The express shipments by carloads were: Mixed vegetables, 21; beans, 105; green corn, 7; lettuce, 33; spinach, 2; tomatoes, 31; cantaloupes, 45; carrots, 15; parsley, 4; a total of 264 cars. Freight shipments showed: Oranges, 7; grapefruit, 107; beets, 317; carrots, 490; beets and carrots, 1447; corn, 203; cantaloupes, 43; cucumbers, 14; lettuce, 46; watermelons, 4; onions, 435; potatoes, 2500; spinach, 9; tomatoes, 258; turnips, 9; mixed vegetables, 1982; honeydew melons, 2 cars.

PROPOSALS

BOND ISSUES
BUILDINGS
PAVING
GOOD ROADS

Bids close August 5, 1924.

U. S. ENGINEER OFFICE, Florence, Ala. Sealed proposals will be received here until 11 A. M. August 5, 1924, and then opened, for furnishing and erecting a bascule bridge across the navigation lock of Wilson Dam. Further information on application.

Bids close August 1, 1924.

U. S. ENGINEER OFFICE, Florence, Ala. Sealed proposals will be received here until 11 A. M. August 1, 1924, and then opened, for furnishing structural steel roof trusses, columns, etc., for the powerhouse of Wilson Dam, Tennessee River. Further information on application.

Bids close July 21, 1924.

Proposals for Diesel Engine Driven Generator Equipment for Stand-by Generator Stations.—Sealed proposals will be received at the office of the General Purchasing Officer, The Panama Canal, Washington, D. C., until 10:30 o'clock a. m., July 21, 1924, at which time they will be opened in public, for furnishing the above-mentioned equipment. Blanks and information relative to this Circular (1617) may be obtained from this office or the offices of the Assistant Purchasing Agents, 24 State Street, New York City; 611 Gravier Street, New Orleans, La.; and Fort Mason, San Francisco, Cal.; also from the United States Engineer offices in the principal cities throughout the United States.

A. L. FLINT, General Purchasing Officer.

RATE: 35 cents per line per insertion.
PUBLICATION DAY: Thursday.

FORMS CLOSE 4 P. M., Monday.
DAY LETTER: When too late to send copy by mail to reach us by 4 P. M. Monday, forward by day letter.

THE DAILY BULLETIN OF THE MANUFACTURERS RECORD: Published every business day; gives information about the industrial, commercial and financial activities of the South and Southwest.

The Daily Bulletin can be used to advantage when copy cannot reach us in time for publication in the Manufacturers Record before bids are to be opened, or when daily publications are necessary to meet legal requirements.

The same rate applies—35 cents per line per insertion.

Bids close July 14, 1924.

\$23,000 6% Gold Bonds

Fort Meade, Fla.

Sealed bids will be received by the Bond Trustees of Fort Meade, Florida, until 7:30 o'clock P. M. July 14, 1924, for Street Paving Bonds.

Said bonds are dated June 2, 1924, and are of the denomination of \$1000 each and are due and payable June 1, 1954.

The principal and semi-annual interest at

six per centum, payable June 1 and December 1, at American Exchange National Bank, New York City.

Approving opinion of John C. Thomson, Esq., of New York City, will be furnished the successful bidder.

The said Bond Trustees shall have the right to reject any and all bids. All bids must be accompanied by certified check of \$500 as evidence of good faith.

Address all bids to the Board of Bond Trustees, care of Vernon Clyatt, Secretary Fort Meade, Florida.

VERNON CLYATT, Secretary.
PATTERSON & WILSON, City Attorneys.
Fort Meade, Florida.

Bids close July 24, 1924.

\$240,000 6% Improvement Bonds

Gulfport, Fla.

The Town of Gulfport, Florida, will on July 24, 1924, at 8 o'clock P. M., receive bids for the purchase of \$240,000 improvement bonds of said town, said bonds maturing each year in equal amounts for ten years and drawing interest at the rate of 6% per annum, payable semi-annually in New York City or St. Petersburg, Florida. A deposit of \$2400 is required from each bidder as an evidence of good faith.

Any desired information may be obtained from W. W. Swift, Gulfport, Florida, or W. F. Way, St. Petersburg, Florida.

W. W. SWIFT, Town Clerk.

PROPOSALS

July 10, 1924.
Manufacturers Record.

Bids close July 15, 1924.

\$80,000 Refunding Bonds

Union, S. C.

Notice is hereby given that the City of Union, S. C., will offer for sale eighty thousand dollars (\$80,000) worth of serial refunding bonds. Bids will be received in the office of Edward B. Smith, Mayor, Union, S. C., until July 15, 1924, at twelve o'clock noon. All bids must be accompanied by a certified check of one thousand dollars (\$1000). The checks of the unsuccessful bidder will be returned. The City of Union reserves the right to reject any and all bids.

JOHN K. HAMBLIN, City Attorney.

Bids close July 15, 1924.

\$35,000 Water and Sewerage Bonds

York, S. C.

The Town of York, S. C., will receive sealed bids, said bids to be opened at noon July 15, 1924, for \$35,000 of Water and Sewerage Bonds, to bear interest at a rate not over six per cent per annum, payable annually, bonds maturing in twenty years. Bids are asked for said bonds on a basis of 5 1/2 and 6 per cent.

These bonds will be issued pursuant to a petition of the freeholders and an election held in said town on the 2d day of June, 1924. The town reserves the right to reject any or all bids. Send bids to E. A. Hall, Mayor, with endorsement on envelope, "Bid for Water and Sewerage Bonds, Town of York." Each bidder must accompany bid with a certified check of some reputable bank for \$500.

E. A. HALL, Mayor.

Bids close July 17, 1924.

\$500,000 5 1/2% Bridge Bonds

Palatka, Fla.

Sealed proposals will be received by the Board of Bond Trustees of Special Road and Bridge District Number Seven, Putnam County, Florida, on July 17, 1924, at 12:00 o'clock noon, for the purchase of \$500,000.00 Coupon Bridge Bonds of Putnam County, Florida, created Special Road and Bridge District Number Seven, of said County. Bonds to be in denomination of \$1000.00 each, dated July 1, 1924, and maturing serially, each year, from July 1, 1927, to July 1, 1953, inclusive. Certain of the bonds are callable at ten years, certain at twelve years and certain at fifteen years, at the option of the Board. Interest to be at Five and one-half per cent (5 1/2%), payable semi-annually at Equitable Trust Company, New York City. Privilege of registration as to principal. Bonds cannot sell for less than par with accrued interest to delivery, and right is reserved to reject all bids. Proposal must be accompanied by certified check for two per cent (2%) of amount of bonds bid for. Approving opinion of Mr. John C. Thompson, of New York City, together with certificate of Judicial Validation, will be furnished successful bidders.

For further information address J. W. Hart, Secretary, Merryday Building, Palatka, Florida, who will furnish upon request formal Notice of Sale, required form for proposal and complete prospectus.

Bids close July 17, 1924.

\$700,000 5 1/2% Road Bonds

Palatka, Fla.

Sealed proposals will be received by the Board of Bond Trustees for Special Road and Bridge District Number Six, of Putnam County, Florida, on July 17, 1924, at 12:00 o'clock noon, for the purchase of \$700,000 of Coupon Road Bonds of Special Road and Bridge District Number Six, of Putnam County, Florida. Bonds are in denomination of \$1000.00 each, dated July 1, 1923, and maturing July 1, 1953. Interest Five and one-half per cent (5 1/2%) payable semi-annually at Hanover National Bank, New York City. Privilege of registration as to principal. Bonds cannot sell for less than par with accrued interest to delivery, and right is reserved to reject all bids. Proposal must be accompanied by certified check for Two per cent (2%) of amount of bonds bid for. Approving opinion of Mr. John C. Thompson, of New York City, together with certificate of Judicial Validation, will be furnished successful bidders.

For further information, address J. W. Hart, Secretary, Merryday Building, Palatka, Florida, who will furnish upon request formal Notice of Sale, required form for proposal and complete prospectus.

Bids close July 23, 1924.

Bridges

Miami, Fla.

Sealed proposals will be received until noon Wednesday, July 23, 1924, at the office of The Bay Biscayne Improvement Company, 105-107 Northeast Second avenue, Miami, Florida, for the construction of twelve Reinforced Concrete Bridges and two double-leaf Bascule type Steel Drawbridges, with a total length of 4238 feet, across Biscayne Bay between the cities of Miami and Miami Beach, Dade county, Florida, and known as "The Venetian Way."

Plans and Specifications may be seen at the office of the Engineering News-Record after June 30, or obtained from the Engineer for the sum of \$25, \$15 of which will be refunded upon the return of the plans in good condition.

Bids may be submitted upon one or more of the structures, or upon the Concrete or Steel portions of the Bridges with Draw openings, or upon the entire work.

Payments will be made in cash, on the tenth of each month, for eighty per cent of the value of the work done during the preceding calendar month, upon certificates of the Engineer.

All bids must be accompanied by a certified check or bidder's bond, made payable to the Bay Biscayne Improvement Co., for an amount equal to two per cent (2%) of the total amount of bid.

The Bay Biscayne Improvement Company reserves the right to reject any and all bids, to accept any part of any bid, waive all formalities, or to accept the bid which it deems the most favorable to the company.

THE BAY BISCAYNE IMPROVEMENT COMPANY.

By F. C. B. LE GRO, Vice-President.
HARVEY STANLEY, Consulting Engineer,
Fort Lauderdale, Florida.

Dated June 14, 1924.

Bids close July 24, 1924.

Bridge Approach and Excavation

OFFICE OF THE STATE ROAD
DEPARTMENT.

Tallahassee, Fla., June 26, 1924.

Sealed bids will be received at this office until 12 o'clock noon on the 24th day of July, 1924, for the construction of the following project.

Federal Aid Project No. 39-B, Road No. 4, Brevard-St. Lucie counties, being the approach embankment to the Sebastian River Bridge, approximately 1350 feet long and containing approximately 80,000 cubic yards of material, the same to be dredged from the river.

All work to be done in accordance with plans and specifications of the State Road Department.

A certified check or bidder's bond, made payable to the Chairman of the State Road Department, in the sum of five per cent (5%) of the amount bid must accompany each proposal.

Plans may be examined at this office or at the office of the Division Engineer, or may be obtained upon application to this office for the sum of \$5 each, which amount will be refunded if plans are returned in good condition by a bona fide bidder within ten days after bids have been received.

The right is reserved to reject any or all bids.

H. B. PHILIPS, Chairman.
J. L. CRESAP, State Highway Engineer.

Bids close July 17, 1924.

Viaduct and Bridge

Sealed bids will be received and opened by the Mayor and Commissioners of the City of Maryville and County of Blount, Tennessee, at a special or called meeting on July 17, 1924, at one o'clock P. M., for the erection and construction of a viaduct and bridge, to be built and constructed of reinforced concrete according to Ordinance No. 277 of the City of Maryville, and according to the design, plans and specifications now on file in the city office, and any bid made shall be made in accordance with and in strict compliance with the provisions of the said ordinance and the said design, plans and specifications.

All bids must be accompanied by certified check of \$2500, payable to the order of the City of Maryville and County of Blount, and drawn upon some incorporated bank or trust company, the same to be forfeited to the City of Maryville and the County of Blount in the event the contractor to whom the contract is awarded fails to execute the contract within the stipulated time, or in lieu of the check aforesaid the bidder may make a bond in the amount of \$5000, signed with a surety company authorized to operate

in the State of Tennessee, guaranteeing the proper execution of the contract.

Plans and specifications may be seen at the Recorder's office at the City of Maryville or sent to any address upon the deposit with the Recorder of a certified check amounting to \$25 to guarantee the return of said plans and specifications.

Before any bid shall be accepted the bidder shall be required to enter into and execute a proper contract for the construction of said viaduct and bridge, together with a bond as provided by the plans and specifications and the laws of the State of Tennessee.

The right is reserved by the Board of Commissioners and the County of Blount to reject any and all bids and to accept any bid that they deem to be for the best interest of the City of Maryville and County of Blount, whether it is the lowest or not.

All bids shall be sealed in an envelope and addressed to J. L. Tweed, Recorder, Maryville, Tennessee.

This June 30, 1924.

By order of
BOARD OF COMMISSIONERS OF THE
CITY OF MARYVILLE, TENN.
J. L. TWEED, Recorder.
County of Blount.
By W. H. WILLARD, Commissioner.

Bids close July 14, 1924.

Street Improvements

Asheville, N. C.

Sealed proposals will be received by the Commissioners of the City of Asheville, N. C., at the City Hall in Asheville, N. C., until 12 o'clock noon July 14, 1924, for Street Improvements.

The work will consist of:

50,000 sq. yds., more or less, of sheet asphalt, concrete, brick, durax, bitulithic or other pavement with the necessary excavation, curb and gutter, storm sewers and other appurtenances.

Proposals must be marked "Proposal for Street Improvements."

All bids must be upon blank forms provided in the Proposal and Contract and Specifications.

Each bid must be accompanied by a certified check for \$5000 as evidence of good faith.

Plans and specifications will be on file at the Engineers' office in Asheville, N. C., and at the office of the Engineers in Durham, N. C., and copies of the specifications, form of proposal, etc., will be mailed upon application to the Engineers at Durham, N. C.

The right is reserved to reject any or all bids, to waive any informality in any bid, and to accept the bid most favorable to the City of Asheville in the discretion of the Board of Commissioners of the City of Asheville.

R. S. HOLLINGSWORTH,
Purchasing Agent.
GILBERT C. WHITE CO., Engineers,
Durham, N. C.

Bids close July 14, 1924.

Pavement Construction

Daytona, Florida.

Sealed bids addressed to Miss L. E. Hough, City Clerk, Daytona, Florida, will be received at the City Hall up to 10 A. M. on July 14, 1924, for the construction of pavements upon several streets. The work consists of about 66,400 square yards of pavement, approximately 6300 square yards of cement sidewalks and 9700 cubic yards of grading. Contracts may be awarded to one or more contractors. Different materials and types of construction will be considered and the selections will be made after bids are received.

Each bid shall be accompanied by a certified check payable to Miss L. E. Hough, City Clerk, for an amount of five per cent of the bid upon so much of the work as the bidder is willing to contract for. Said check to be forfeited as liquidated damages by any bidder who is awarded a contract and who fails promptly to execute the contract and bond. Certified checks will be returned to the bidders upon execution of contracts and bond, or sooner, upon action of proper authorities. The purchaser reserves the right to reject any and all bids and to waive informality. Bids shall be based upon plans and specifications now on file in the office of the City Manager at Daytona. Copies of plans and specifications may be secured from Harrington, Howard and Ash, Kansas City, Mo., the Consulting Engineers, by depositing \$25. When these plans are returned \$15 will be refunded.

A bond satisfactory to the purchaser in the full amount of the value of each contract will be required.

L. E. HOUGH, City Clerk.

Bids close July 14, 1924.

Paving and Sewers

Gainesville, Fla.

Sealed proposals will be received by the City Council of the City of Gainesville, Florida, until 8:00 P. M. July 14th, 1924, for furnishing material, equipment and labor for the construction of approximately 20,000 Sq. Yards of Paving.

10,700 Lin. Ft. of Concrete Curb.

10,700 Lin. Ft. of Concrete Curb and Gutter.

20,000 Lin. Ft. of Storm Sewer—12 to 18 inches.

Bids will be received on Sheet Asphalt, Asphaltic Concrete, Vitrified Brick and similar paving for surface.

Certified Check or Bidder's Bond through a Gainesville Agency for \$3000 to accompany each bid.

Plans and specifications may be seen at the office of the City Manager, and specifications may be obtained from the above office upon payment of \$3.00 to cover the cost of reproduction.

The right is reserved to reject any and all bids.

G. H. CAIRNS,
City Manager.

E. V. CAMP & ASSOCIATES,
Consulting, Supervising
and Testing Engineers,
Atlanta, Ga.—Jacksonville, Fla.

Bids close July 22, 1924.

Paving, Curbs and Gutters

Gallatin, Tenn.

The City of Gallatin, Tennessee, will receive bids about July 22 for Kentucky Rock Asphalt paving on macadam foundation and for curbs and gutters. The approximate quantities are:

Pavement 11,600 sq. yds.

Curb and gutter.... 23,000 lin. ft.

Bids will be received separately for the paving and for the curb and gutter work.

Plans and specifications may be seen at the office of the Engineer or at the office of E. E. Person, City Recorder, at Gallatin, or a copy may be obtained from the Engineer on receipt of a deposit of \$10, of which \$5.00 will be refunded on return of plans and specifications. For further information address the Engineer.

B. H. KLYCE, Engineer.
506 Fourth and First Nat'l Bank Bldg.,
Nashville, Tenn.

Bids close August 1, 1924.

Water Works Improvements

Davenport, Fla.

Sealed proposals addressed to the Mayor and Town Council, Davenport, Fla., and marked "Sealed Proposals" will be received until 2 P. M. August 1, 1924, to be opened immediately thereafter, for furnishing material, equipment and labor, and constructing certain work approximately as follows:

Erected complete on foundations of Town of Davenport:

1 75,000 gallon Steel Tank and Tower.
Delivered F. O. B. cars at Davenport, Fla.

13,600 Lin. ft. 8-inch and 6-inch Cast-iron Pipe.

6 Tons Special Castings.

29,000 Lin. ft. 2-inch and 1½-inch Galvanized Pipe or C. I. Pipe.

1,100 Pieces Galvanized Fittings.

25 Fire Hydrants.

7 8-inch Gate Valves and Boxes.

12 6-inch Gate Valves and Boxes.

4 2-inch Gate Valves and Boxes.

30 1¼-inch Gate Valves and Boxes.

12,000 Lbs. Pig Lead.

500 Lbs. Jute.

Each bid is to be on blank forms furnished by the Clerk, and is to be accompanied by a certified check, or bid bond issued through a local agency, by a bonding company qualified to do business in the State, made payable to the Mayor of the Town of Davenport, for \$2000 or for 5 per cent of bid on any portion less than the whole.

Certified check or bid bond will be forfeited as liquidated damage if contract and bond are not executed within the time specified, if proposal is accepted; otherwise will be returned within ten days.

The right is reserved to reject any and all bids.

Plans and specifications may be seen at the office of the Clerk and the offices of the Engineers, and specifications may be obtained from the Clerk upon payment of \$2.00 to cover cost of reproduction.

CHARLES A. CRISP, Clerk.
E. V. CAMP AND ASSOCIATES,
Consulting, Supervising and Testing
Engineers,
Atlanta, Ga.; Bartow, Fla.; Jacksonville, Fla.

Bids close July 22, 1924.

Water Mains

Sealed proposals will be received by Johnson Taylor, Recorder, of Round Hill, Loudoun County, Virginia, until 1 o'clock P. M. July 22, 1924, for building about one-half mile of 6-inch iron water main and about three-quarter mile of 4-inch iron water main for the Town of Round Hill, Virginia. For detailed information apply to Johnson Taylor, Recorder.

W. K. MILHOLLEN,
Mayor of Round Hill, Va.

Bids close July 28, 1924.

Sanitary Sewer System

Sealed proposals will be received and publicly opened and read by the Board of Commissioners of Sewer Improvement District No. 4 of El Dorado, Arkansas, at two o'clock P. M. on the 28th day of July, 1924, in the courtroom of the County Courthouse of Union County, Arkansas, for the furnishing of all material and labor and the construction complete in place of a sanitary sewer system in the City of El Dorado, Arkansas.

Bids will be compared on the following list of quantities, which are approximate only:

345 Manholes.
118 Flush Manholes.
86 Lin. ft. Extra Depth Manholes.
94 Lin. ft. Drop Connections.
74,360 Lin. ft. 8 in. Pipe, 0 to 6 ft. cutting.
30,935 Lin. ft. 8 in. Pipe, 0 to 8 ft. cutting.
7,525 Lin. ft. 8 in. Pipe, 0 to 10 ft. cutting.
1,635 Lin. ft. 8 in. Pipe, 0 to 12 ft. cutting.
995 Lin. ft. 8 in. Pipe, 0 to 14 ft. cutting.
13,810 Lin. ft. 10 in. Pipe, 0 to 6 ft. cutting.
4,810 Lin. ft. 10 in. Pipe, 0 to 8 ft. cutting.
1,205 Lin. ft. 10 in. Pipe, 0 to 10 ft. cutting.
300 Lin. ft. 10 in. Pipe, 0 to 12 ft. cutting.
275 Lin. ft. 10 in. Pipe, 0 to 14 ft. cutting.
2,355 Lin. ft. 12 in. Pipe, 0 to 6 ft. cutting.
1,580 Lin. ft. 12 in. Pipe, 0 to 8 ft. cutting.
1,320 Lin. ft. 12 in. Pipe, 0 to 10 ft. cutting.
45 Lin. ft. 12 in. Pipe, 0 to 12 ft. cutting.
11,020 Lin. ft. 15 in. Pipe, 0 to 6 ft. cutting.
1,820 Lin. ft. 15 in. Pipe, 0 to 8 ft. cutting.
810 Lin. ft. 15 in. Pipe, 0 to 10 ft. cutting.
100 Lin. ft. 15 in. Pipe, 0 to 12 ft. cutting.
10,525 Lin. ft. 21 in. Pipe, 0 to 6 ft. cutting.
5,485 Lin. ft. 21 in. Pipe, 0 to 8 ft. cutting.
1,720 Lin. ft. 21 in. Pipe, 0 to 10 ft. cutting.
220 Lin. ft. 21 in. Pipe, 0 to 12 ft. cutting.
1,514 6x8 Wyes or Tees.
144 6x10 Wyes or Tees.
43 6x12 Wyes or Tees.
12 6x15 Wyes or Tees.
13 6x21 Wyes or Tees.
Cast-iron Rings and Covers, 9600 lbs.
Wrought-Iron Well Covers, complete, 6 each.
21 in. Shear Gate Valves, 4 each.
10 in. Shear Gate Valves, 14 each.
Vent Pipes, 94 each.
Expansion Joints, 510 lin. ft.
Plate Glass, 70 sq. ft.
I-Beams, 10,000 lbs.
Reinforcing Mesh, 7500 lbs.

Reinforcing Steel, 3500 lbs.
Cast-iron Pipe, 132,000 lbs.
Concrete in structures, 800 cu. yds.
Excavation in tanks, 1500 cu. yds.

A certified check on some reputable bank in the sum of fifteen thousand dollars (\$15,000), made payable to the Secretary of the District, must accompany the proposal as a guarantee of good faith. Checks of unsuccessful bidders will be returned in ten days or less.

Payment to contractor will be made monthly on engineer's estimate of acceptable work done, in cash, less a retained percentage of ten per cent (10%).

Specifications may be obtained upon application. Plans and profiles may be seen at the office of Ford & MacCrea, 215 Gazette Building, Little Rock, Arkansas, or at their sub-office, Room No. 9, Swilley Building, El Dorado, Arkansas, or will be printed and furnished on order upon payment of ten dollars (\$10), no refund, to the main office in Little Rock, Arkansas.

The right is reserved to reject any or all bids submitted.

BOARD OF COMMISSIONERS,
SEWER IMPROVEMENT DIST. NO. 4,
El Dorado, Arkansas.
P. G. LAKE, Chairman.
C. H. MURPHY.
J. D. TRIMBLE, Secretary.

Bids close July 14, 1924.

Storm Sewer Extensions

Daytona, Fla.

Sealed bids addressed to Miss L. E. Hough, City Clerk, Daytona, Florida, will be received at the City Hall up to 10 A. M. on July 14, 1924, for the construction of storm sewer extensions. The contract embraces the storm sewer extensions including approximately 9000 feet of 10" to 30" vitrified clay or cement concrete pipe, 800 feet of cast-iron pipe, numerous manholes and inlets, culverts, castings, specials and fittings, and the performance of other incidental work.

Bids shall be accompanied by certified checks payable to Miss L. E. Hough, City Clerk, for amounts of five per cent of the bids, to be forfeited as Liquidated Damages by any bidder who is awarded a contract and who fails promptly to execute the contract and bond. Certified checks will be returned to the bidders upon execution of contract and bond, or sooner, upon action of proper authorities. The purchaser reserves the right to reject any and all bids and to waive informalities. Bids shall be based upon plans and specifications now on file in the office of the City Manager at Daytona, and in the office of Harrington, Howard and Ash, Consulting Engineers, Kansas City, Mo. Copies of plans and specifications may be secured from the Consulting Engineers by depositing \$25. These plans shall be returned and \$15 will be refunded.

A bond satisfactory to the purchaser in the full amount of the value of each contract will be required.

L. E. HOUGH, City Clerk.

Bids close August 5, 1924.

Sewer Construction

OFFICE OF
DIRECTOR OF PUBLIC WORKS.

Richmond, Va.

Sealed proposals will be received at this office until 12 o'clock noon August 5, 1924, for the construction of approximately 2262 linear feet of 27"x15'-1½" reinforced concrete arch sewer, 342 linear feet of 17"x11'-9" reinforced concrete box sewer, headwall, concrete syphon, junction box and certain sanitary sewers.

Plans and specifications can be obtained on and after July 10, 1924.

The approximate total value of this work is \$650,000.

A deposit of \$25 will be required to be made for each set of proposals obtained, which will be returned only if a bona fide bid is made.

Forms of proposals can be obtained on application.

A certified check for amount stated (\$20,000) on proposals must accompany each bid as a guaranty of execution of contract. The Director of Public Works reserves the right to reject any and all bids.

ALLEN J. SAVILLE,
Director of Public Works.

PROPOSALS

July 10, 1924.
Manufacturers Record.

Bids close August 5, 1924.

Sewer Construction

OFFICE OF
DIRECTOR OF PUBLIC WORKS

Richmond, Va.

Sealed proposals will be received at this office until 12 o'clock noon August 5, 1924, for the construction of approximately 2510 lineal feet of 29x16'-3" and 3795 lineal feet of 27x15'-1½" reinforced concrete arch sewers, 464 lineal feet of 7'-6"x7'-2" reinforced concrete box sewer, certain reinforced concrete junction boxes, lateral segment block or precast concrete sewers, T. C. sanitary sewer, etc.

Plans and specifications can be obtained on and after July 10, 1924.

The approximate total value of this work is \$1,000,000.

A deposit of \$25 will be required to be made for each set of proposals obtained, which will be returned only if a bona fide bid is made.

Forms of proposals can be obtained on application.

A certified check for amount stated (\$30,000) on proposals must accompany each bid as a guaranty of execution of contract. The Director of Public Works reserves the right to reject any and all bids.

ALLEN J. SAVILLE,
Director of Public Works.

Bids close July 15, 1924.

Construction of Dam

Roanoke, Va.

Proposals for constructing a dam on Beaver Dam Creek, Bedford County, Virginia, will be received up to and including July 15, 1924.

Construction involves dam impounding 425 million gallons of water and handling of some 50,000 cubic yards of materials.

Plans and specifications will be open to inspection of prospective bidders on and after June 15, 1924, at the office of Roanoke Water Works Company, 20 Salem Avenue, S. E., Roanoke, Virginia.

Bids close July 19, 1924.

Core Drilling

Staunton, Va.

Bids will be received by the City Manager, Staunton, Virginia, up to twelve o'clock noon on July 19, 1924, for Diamond Drill investigations of the North River Storage Dam Sites.

A minimum of 400 lineal feet of drilling will be required and a minimum hole will be twenty feet. The cores shall be 1½ inch in diameter or larger, and each bidder shall specifically state the size core contemplated in his proposal.

The work is located on the main branch of North River, in Augusta County, Virginia, approximately seven miles above Stokesville, Va., on the Chesapeake Western Railroad. Camp will be required for crews and all supplies, including fuel, will have to be hauled to the site. Teams can be obtained for about \$6 per day and labor for \$3 per day. The formation to be prospected is sandstone and about two-thirds of the axis to be investigated is overlain with 6 to 10 feet of Glacial Drift. All holes will be vertical, with the exception of four angle holes, two at each abutment. Water can be obtained at the site, but required pressure shall be provided by the contractor.

The Engineer will be at the Stonewall Jackson Hotel, Staunton, Va., on Wednesday and Thursday, July 16 and 17, at 8 A. M. to show bidders the site.

It is understood that proposals cover all labor, materials, equipment and hauling necessary to complete the work, including core boxes and the delivery of the completed cores at the office of the City Manager, Staunton, Va. Each proposal shall state the time required for the investigation, when work can be started and the number of machines to be used.

The right is reserved to reject any or all bids.

W. F. DAY, City Manager.

CLASSIFIED OPPORTUNITIES

MINERAL AND TIMBER LANDS WATER POWER, MISCELLANEOUS PROPERTIES

LUMBERMEN AND TURPENTINERS.

Mexico timber-land bargains; 140,000 acres in Jalisco, 7000 ft. big pine per acre, near railway and seaport. Larger tracts in other states; good titles, prices below competition. Selections of best values by cruisers of experience. Also two fine agricultural, colonist and grazing tracts. Address 614 W-T-W Building, Fort Worth, Texas.

NORTHWEST GEORGIA.

The scene of the next great industrial development in Georgia. Electric power available. Large power plants under construction.

For industrial sites; pine and hardwood timber; brick shales; clays; large or small water powers; farms in a prosperous section. Write, with detail, as to your requirements.

C. E. VANCE, Calhoun, Georgia.

TIMBER AND TIMBER LAND

VIRGINIA SPRUCE FOR SALE—Tazewell County, Virginia, one thousand acres fine spruce, will cut close to 20,000,000 feet; trees tall, will cut six 16-foot logs to tree; six miles from railroad across mountain or 12 miles around mountain; good roads. For further particulars write SHAMOKIN LUMBER AND MANUFACTURING CO., Shamokin, Pa.

FOR SALE.

80,000 acres Virginia crosstie timber; will cut half-million ties. Fifty miles south of Jacksonville, Florida, on railroad and St. John's River; 80 per cent of timber less than three-mile haul to rail or water. Price thirty thousand.

S. F. KING,
Floral City, Citrus County, Florida.

FARM, FRUIT AND TRUCK LANDS

FLORIDA

EVERGLADE LAND, rich, deep muck soil, five-acre truck farm up to 40,000-acre colonization tracts, million and a half dollar sugar mill near which refined sugar this year. Land adapted to truck, fruit, sugar cane or stock farming.

STEWART, HOLLOPETER & McCUNE,
Realtors, Miami, Florida.

RATES AND CONDITIONS

Rate 30 cents per line per insertion. Minimum space accepted, four lines. In estimating the cost, allow seven words of ordinary length to a line. When the advertisement contains a number of long words, proper allowance should be made. Terms: Invariably cash with order; check, postoffice or express order or stamps accepted. No display type used. Questionable or undesirable advertisements will not be accepted. The assistance of our readers in excluding undesirable advertisements is requested. We reserve the right to refuse any advertisement. No patent medicine, oil or mining stock advertisement accepted. Rate for special contracts covering space used as desired within one year as follows: 100 lines, 28c per line; 300 lines, 26c. per line; 500 lines or more, 25c. per line.

FARM, FRUIT AND TRUCK LANDS

FLORIDA

FLORIDA—Playground of the Rich; Paradise of the poor. The fastest developing State in the Union, and Roger Babson, the great business statistician, says that TAMPA is destined to be the greatest city in the Southeast. Come and be one of us. We have a Home, Grove or Farm for you. Send today for booklet, "Largest Orange Tree in the World," and list, Tampa-West Coast Realty Co. (Inc.), Opp. Postoffice, "Since before the war," Tampa, Fla.

FOR SALE

Six thousand acres of land, good for fruit and farming, also fine satsuma orange land, high, well-drained, over two hundred feet above sea level; fine lakes and good fishing and hunting; will take \$12.50 per acre; other land in same vicinity has been selling as high as \$200 per acre; this is a good purchase. Will net any purchaser 8 per cent annually on his investment. Apply to G. M. Thomas, Marianna, Fla.

WE OWN 12,000 ACRES of Everglades Muck land. Soil over 10 feet deep. Adjoining lands now under cultivation. Sixteen miles of rock-surfaced roads and navigable canals already constructed. This tract fronts on the Cross State Highway. For sale at an attractive price.

CONSOLIDATED REALTY COMPANY,
223 Clematis Ave. West Palm Beach, Fla.

FARM, FRUIT AND TRUCK LANDS

FLORIDA

FOR SALE—50 A bearing Orange Grove. Estimated crop for coming season 15,000 boxes. Located 3 miles from Leesburg on Lake Harris. No better location in Florida. If interested write for full information and price. E. F. Watts, Leesburg, Fla.

NORTH CAROLINA

FOR SALE—1800 Acres adapted to growing peaches, dewberries and general farming. Located near Pinehurst, N. C. 1 ½ million ft. timber. Price cheap, terms easy. Write J. E. Simmons, Box 177, Charlotte, N. C.

VIRGINIA

VIRGINIA APPLE ORCHARD for sale. 2000 bearing trees in excellent condition; located at railroad station. Address G. B. Brown, Stuarts Draft, Va.

BUSINESS OPPORTUNITIES

SUBSTANTIAL MANUFACTURING COMPANY wants capable man to open office and manage salesmen; \$500 to \$1500 necessary. Possibilities unlimited. Atlantic Coast Mfg. Co., McKevitt Bldg., Norfolk, Va.

WANTED—Experienced Furniture Man, with or without capital, who is interested in manufacturing; healthy location, ideal site, timber abundant, labor, electric and water power cheap. Address No. 6351, care of Manufacturers Record, Baltimore, Md.

CAPITAL WANTED—For development of large fertilizer deposits for which there is big demand. Guaranteed output for 1925 100,000 tons at a net profit of not less than \$3.00 per ton, selling price \$7.50 per ton, f.o.b. plant. Would consider taking machinery, steam shovels, dryers, crushers, cranes, one locomotive engine, 3 ½ miles of railroad track, etc., new or used, if in good condition, and small amount of capital. Exceptional opportunity for a safe investment with a great future. Will stand close investigation. Necessary to raise capital quickly to get ready for 1925 operations. If interested wire when can make personal investigation.

GA-FLA ORCHARD & PACKING CO.,
Blountstown, Florida.

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BUSINESS OPPORTUNITIES

FOR SALE—CRATE FACTORY. Well-equipped; well-located; 1 million peach trees in radius of 6 miles and large acreage of strawberries; abundance of crate timber available. For particulars write KINGSTON CRATE COMPANY, Harriman, Tennessee.

I SPECIALIZE in industrial, warehouse and business sites at and adjacent to Washington, D. C.

M. B. HARLOW,
Harlow Building, Colorado Building,
Alexandria, Va. Washington, D. C.

FOR SALE—FISHING RIGHT. The best in the State. Lake covers two thousand acres of land. Will sell exclusive right and I will look after same. Fine hunting also. Will give deed; good title. A great place for sport.

G. M. Thomas, Marianna, Fla.

I SPECIALIZE in industrial, warehouse and business sites at or near Tampa, Florida, the seventh largest port in the United States. Jasper Walker, P. O. Box 674, Tampa, Florida.

FILTER SAND USERS—We are offering for filter purposes 98½% silica sand, effective size .45 millimeters, uniformity coefficient 1.6. Sample sent on request.

EVANS SAND CO., ELLIOTT, S. C.

FOR SALE—Nice home, 600-acre farm and hydro-electric plant with a twenty-year contract with the City of Marianna for light and power. Plant pays ten thousand dollars a year; also good fishing and hunting as there is in the State; fine sport. An ideal place for anybody to live. Six miles South of City of Marianna. Want to sell quick. Wire or write or come to G. M. Thomas, Marianna, Fla.

COLLECTION

COLLECTIONS
MERRIAM,
507 FIFTH AVENUE,
NEW YORK CITY

INDUSTRIES WANTED

INMAN, S. C., wants industries, large and small. Good climate, good labor conditions, electric power, water. Will offer inducements to assist in location of good industries. Write Secretary Chamber of Commerce.

TRINITY, N. C., wants small industries. Five miles from High Point, new school, good roads. Will furnish buildings for small woodworking plants, upholstery, concrete, roller mill, canning factory, etc. Two good residences with fine lots for sale on easy terms. Address P. O. Box 34, Trinity, N. C.

FREE FACTORY SITES and a remission of taxes for a period of years will probably be offered to the right kind of an industry coming to this city, a financial center, second ranking port of U. S. Enormous quantities of raw materials pass through here, splendid climate, summer and winter resort, plenty of labor, low freight rates to the interior and Atlantic Seaboard ports. This Chamber of Commerce will actively support the right kind of financial proposition bringing new industries here. Write Industrial Manager.

CHAMBER OF COMMERCE
Galveston, Texas.

THE NEW TOWN, SCHRIEVER, LOUISIANA, was denominated "The 100% Town" by a magazine writer the other day. That is proper, for every business in the place is making money; even the postmaster wears continually a prosperity smile. With a distinctive purpose to advertise the place, everyone is painting his building white. Already it is known as the White City. Schriever lacks 9 days of being 4 months old, but it is the firmly-established civic center of a prosperous, productive district, which is thickly settled with a citizenry bred to work and economy. One thousand automobiles pass over the fine highways through Schriever every day. The graphically told history of romantic Schriever mailed on request. Association of Industries, Schriever, Louisiana.

INDUSTRIES WANTED

SPECIAL INDUCEMENT offers small factories located in Van Wert, Ohio; plenty of labor, lowest tax rate, best transportation. Address Chamber of Commerce, Van Wert, Ohio.

INDUSTRIAL PLANTS

BRICK MANUFACTURING PLANT. For sale or lease. Low price and easy terms.

U. H. DAVENPORT, Athens, Georgia.

FOR SALE—FRAME MILL BUILDING about 50x36 ft., 3 stories with basement, well built, together with a 2-story brick building about 60x45 ft. (former distillery) adjoining, with a 75 H. P. engine and boiler, and machinery for grinding corn, oats, etc.

Plant 4 miles from railroad, about 30 miles from Louisville, 7 miles from Jackson Highway. Suitable for manufacturing establishment, such as cannery, feed plant, etc. Situated in one of the best farming districts in Kentucky. For further information address

H. McKENNA, Fairfield, Kentucky.

YARN MILL FOR SALE.

12,000 spindles; COMBED YARN; thoroughly modern, in first-class physical condition; negotiations confidential. Box 886, Greensboro, N. C.

FOR SALE—MANUFACTURING PLANT IN JERSEY CITY, SUITABLE FOR FOUNDRY, MACHINE SHOP OR GENERAL STEEL MANUFACTURING, ON CENTRAL RAILROAD OF NEW JERSEY. ABOUT 90,000 SQUARE FEET UNDER ROOF ON APPROXIMATELY FOUR AND ONE-HALF ACRES. MAJORITY BUILDINGS RECENTLY CONSTRUCTED. FOR DETAILS APPLY TO M. W. KELLOGG COMPANY, JERSEY CITY, N. J.

\$35,000 IN THIRTY MONTHS—We have for immediate sale a planing mill on the main thoroughfare Huntington, W. Va., building 80x185, on two switches, the plant showing by the books an earning of \$35,000 in the last thirty months. Business better than ever. Owner has heart trouble and must sell and get South at once.

Huntington is right now building \$12,000,000 worth of structures. Biggest building movement in entire South if not in the United States. Business long established and has fine reputation and ample trade.

Books open to anyone interested. Write or wire immediately if you want a going business, a paying business in the livestock town on the map.

CAMMACK SALES CO.,
Western Union Bldg., Huntington, W. Va.

If interested in buying
A SOUTHERN COTTON MILL
Write to

F. C. ABBOTT & COMPANY
Charlotte, N. C.

26 years' experience in Southern Mill Stocks.

MODERN CONCRETE AND BRICK one-story building; fifteen thousand feet floor space; one and half acres ground. On railroad near Potomac Yards. Graham & Ogden, Alexandria, Virginia.

PATENT ATTORNEYS

PATENTS—Booklet free. Highest references. Best results. Promptness assured. Watson E. Coleman, Patent Lawyer, 644 G St. N. W., Washington, D. C.

PATENTS—TRADEMARKS—COPYRIGHTS Write for our free Guide Books and "RECORD OF INVENTION BLANK" before disclosing inventions. Send model or sketch and description of your invention for our free Examination and Instructions. Highest references. Reasonable terms. VICTOR J. EVANS & CO., 712 Ninth, Washington, D. C.

INVENTORS—Send sketch or model of your invention, for opinion concerning patentable nature, and exact cost of applying for Patent. Book, "How to Obtain a Patent" sent free. Gives information on patent procedure and tells what every inventor should know. Established 25 years. Chandlee & Chandlee, 412 7th St. N. W., Washington, D. C.

AGENCIES WANTED

DEVELOPMENT, PUBLICITY, technical service and sales engineering; academic and technical education and 15 years' experience in materials engineering and allied professional work; now engaged in New York, removing to West Coast about August 1st, headquarters Seattle, branch connections San Francisco, Los Angeles, Canadian Northwest and Orient; your immediate correspondence invited. Address No. 6347, care Manufacturers Record.

OLD, WELL-ESTABLISHED COMPANY in Charlotte, N. C., wants to represent manufacturers of mill supplies and general machinery. Address No. 6344, care of Manufacturers Record, Baltimore, Md.

SITUATIONS WANTED

ACCOUNTANT, EXPERIENCED in public practice, desires connection with manufacturing or financial corporation as auditor. Address No. 6349, care Manufacturers Record, Baltimore, Md.

A MIDDLE-AGED MAN with a good business education and experience, possessing diplomacy, initiative and loyalty, would like a position of trust with a corporation or financial institution in some responsible capacity, who appreciates real service. Address No. 6350, care Manufacturers Record.

MEN WANTED

AN EASTERN LEATHER BELT manufacturer is desirous of securing an experienced Belt salesmen for the South. Good salary or salary and bonus; excellent opportunity for right man. Address No. 6346, care Manufacturers Record, Baltimore, Md.

LIME SUPERINTENDENT WANTED. Wanted—Superintendent for modern lime-burning and hydrating plant. Capacity 50 tons per day. Must be married or settled, thoroughly familiar with machinery and handling of men. References. State full particulars in first letter. Address No. 6348, care of Manufacturers Record, Baltimore, Md.

WANTED High Class Engineer capable of designing and taking off reinforcing steel quantities and making up, placing diagrams for same; also who can make up a complete quantity survey of all materials for fireproof buildings. Must be experienced, accurate and must furnish reference. Permanent position to right party and will consider giving salary and share in profits. Must be single and not over 35 years old and American born. Address Box 91, Bluefield, W. Va.

SALARIED POSITIONS \$2500 to \$25,000 upward; executive, technical, administrative, engineering, manufacturing, professional, managing, financial, etc., all lines. If you are qualified and receptive to tentative offers for a new connection you are invited to communicate in strict confidence with the undersigned, who will conduct preliminary negotiations for such positions. A method is provided through which you may receive overtures in confidence, without jeopardizing present connections, and in a manner conforming strictly to professional ethics. Send name and address only; preliminary particulars will be sent without obligating or compromising you in any way. R. W. Bixby, Inc., 403 Lockwood Building, Buffalo, N. Y.

CREOSOTED POLES AND PILES

FOR SALE. For quick Atlantic delivery 96 M lineal feet Poles and Piles 8" tips, 30 to 70 feet lengths, now being creosoted.

H. B. BOND, Nashville, Tenn.

MACHINERY AND SUPPLIES

MACHINERY FOR SALE—Stedman 36-inch Cage mill, screen, elevator, buckets complete. Also crackling chopping machine. Both practically new. Splendid outfit for grinding tankage or hard-pressed cakes as produced by the new dry-rendering process. Both at a bargain. Must be moved from present location.

J. F. HOWARD,
Room 205, Exchange Building, Louisville, Ky.

FOR SALE GRAVEL PLANT

We are liquidating the equipment of the Yadkin Gravel Co., Lilesville, N. C., and offer exceptional bargains for quick sale to avoid extra freight and handling. The following are some of the principal items:

- 36" gauge Baldwin saddle-tank locomotive.
- No. 4½ Champion jaw crusher with screen and elevator.
- 36" gauge 4-yd. K. & J. dump cars.
- 35 lb. rail for one mile of track.
- Pipe—3000'—6" black wrought with couplings.
- Boilers, 80, 40 and 30 H.P. portable types.
- Pumps, Morris 6" centrifugal belted, also several steam pumps.
- Engines, center crank, 40 and 80 H.P.
- Including large assortment of miscellaneous tools and supplies for operating a plant of this nature.

Our foreman, Mr. J. B. Roach, is now at Lilesville and will show the machinery and assist you in making inspections.

HACKLEY MORRISON CO., Inc.
RICHMOND, VA.
MACHINERY DEALERS

Electric Street Railway Property FOR SALE AT BURLINGTON, N. C.

The undersigned Receiver and Special Master invites bids on the following Street Railway property:—
 8.4 miles of No. 70 A.S.C.E. steel rail, double.
 8.4 miles of 00 copper trolley wire with all fittings of standard construction.
 5 miles No. 4-7 strand aluminum feeder cable.
 4 closed cars for one-man operation on Brill trucks, with 1000 G. E. motors.
 4 open cars with G. E. 800 motors.
 1 Electric Locomotive equipped with 4-50 H.P. Westinghouse motors.
 All motor equipment is for 500 volts direct current.
 Bids are now invited to be submitted subject to approval by the United States District Court at Greensboro.
 The entire Street Railway property between Burlington, Graham and Haw River will be sold at Public Auction at

The Court House Door in Graham, N. C.,
On July 21st, 1924
AT 11 O'CLOCK A. M.

Offers for the above will not be accepted or acted upon until after the sale of the entire property is made on July 21st. All sales and bids are submitted to the approval of the court. The property will be shown by Mr. W. R. Dixon or Mr. H. G. Smith at Burlington upon application.

J. H. BRIDGERS, Receiver
 And Special Master of U. S. District Court, for the Western District of N. C.
 Address replies to me at Henderson, N. C. or Burlington, N. C.
 July 2nd, 1924.

Unusual Opportunity

to acquire immediately a fine

Manufacturing Site

with existing buildings for far less than the value of the land alone.

(To be sold this month)

E own and offer for sale a 50-acre site on the Chesapeake and Ohio R. R. at Augusta Springs, twenty miles south of Staunton, Virginia, with full riparian rights on river.

Included in the sale are:

A fully equipped brick power plant, storage sheds and other structures formerly part of a tannery of which the main building was destroyed by fire; also 16 dwelling houses, standard gauge R. R. trackage, scales, a large water tank on high steel tower, water mains, etc.

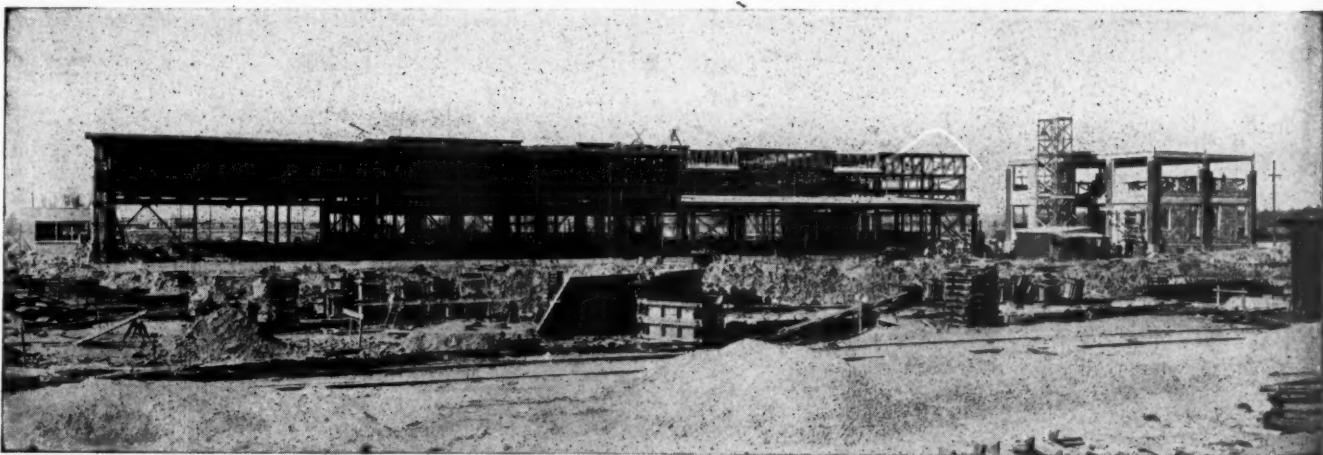
The location insures low freight rates to and from seaboard and all important points north, east, south and west.

Labor, male and female, plentiful and cheap.

Taxes negligible, climate ideal.

The price is but a fraction of the actual tangible value represented. Investigate!

Midgley Steel Products Corp.
30 Church St. **New York City**



WIRE US YOUR STEEL REQUIREMENTS

The next time you need steel and need it in a hurry, call on LUKENS and get acquainted with just what Service means.

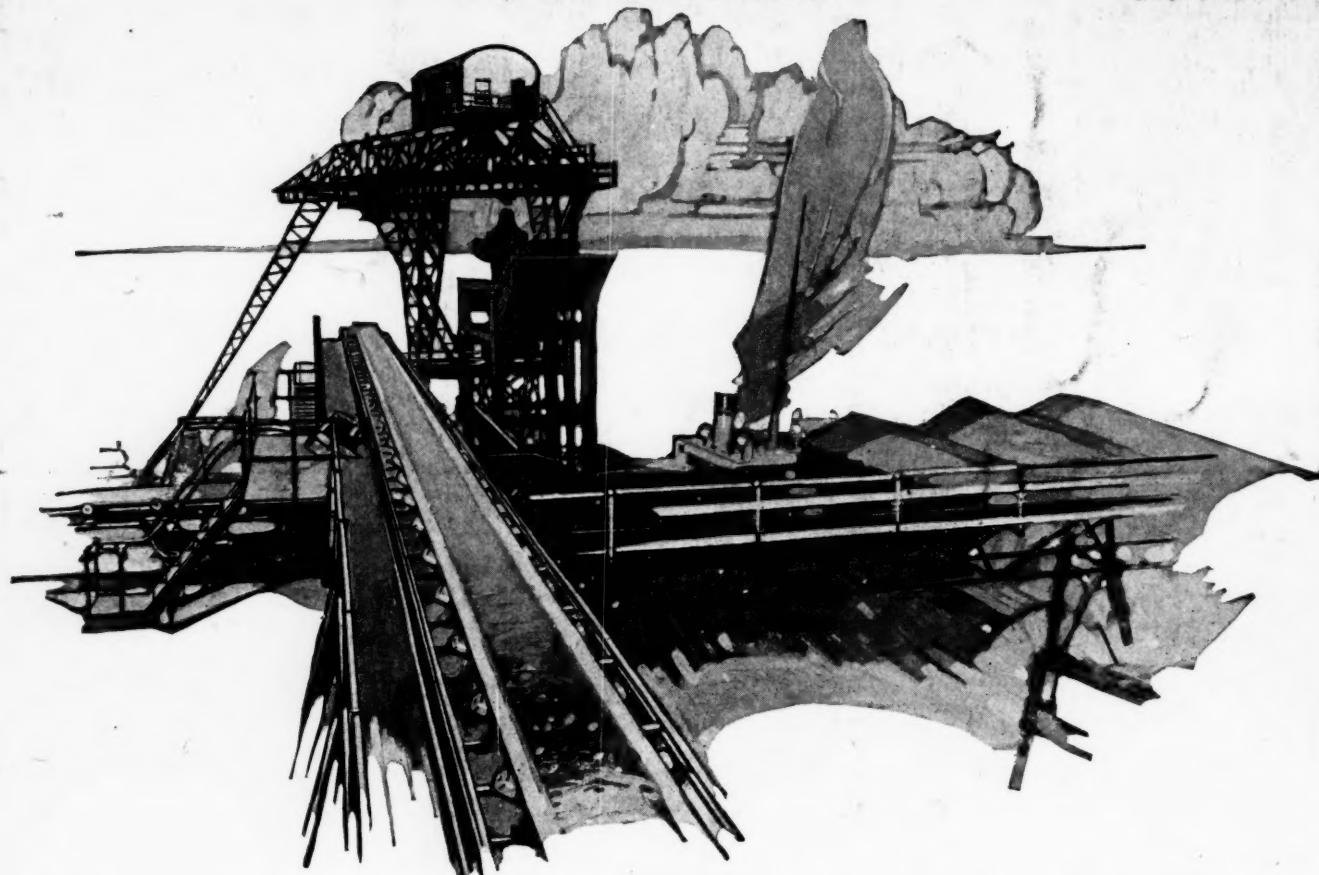
Our new warehouse, located at New Orleans on the Inner Harbor Navigation Canal, will carry ample stock at all times for immediate delivery of **PLATES, STRUCTURALS, SHEETS, RIVETS, BAR IRON and BAR STEEL, BOLTS, BOILER TUBES, SHAFTING, STAY BOLT IRON, TOOL STEEL, KEY STEEL, FLANGED and DISHED HEADS, BOILER FLANGES, PATCH BOLTS, MAN HOLES, ETC.,** and our location enables us to ship by Rail, Water or Motor Truck.

Write for complete stock list.

LUKENS STEEL COMPANY NEW ORLEANS, LA.

Representing

**LUKENS STEEL COMPANY
Coatesville, Penna.
WORLD'S LARGEST PLATE MILL**



Cut Your Handling Costs With Dependable Conveyor Equipment

One of the most modern plants in the country for the handling of sand and gravel is that of The Ohio River Sand Company, at Louisville. Here material is brought in by river barge and unloaded by the Brownhoist Bridge Crane. It is then distributed to various bins by a series of Brownhoist Belt Conveyors.

Brownhoist equipment is built for hard work and years of continuous service. Behind each Brownhoist unit is the wide experience of the Brownhoist staff of engineers. Their proved knowledge and skill in meeting handling problems insures the installation of equipment best adapted to your particular need.

Brownhoist engineers have helped reduce handling costs for hundreds of plants. Their advice is available to you for any type of handling problem.

The Brown Hoisting Machinery Co., Cleveland, O.

Brownhoist Products: Heavy Dock Machinery, Locomotive Cranes, Bunkers, Conveyors, Bridge Cranes, Buckets, Etc.

Branch Offices: New York, Chicago, Pittsburgh, San Francisco, New Orleans, London, Eng.

BROWNHOIST

MATERIAL HANDLING MACHINERY

